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American Iron and Steel Institute

MAXIMUM PRICES ON IRON AND STEEL PRODUCTS

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61 Broadway, New York
NOVEMBER 15, 1918

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AMERICAN IRON AND STEEL INSTITUTE,

New York.

MAXIMUM PRICES

ON

IRON AND STEEL PRODUCTS

With Differentials and Extras

As agreed upon by Government Officials and Committees of the American Iron and Steel Institute; together with prices, extras and differentials recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute.

EFFECTIVE DATE OF PRICES

All base prices, extras and differentials recommended by the American Iron and Steel Institute are effective during the same periods that the maximum prices on iron ore, pig iron, and iron and steel products which have been approved by the President, as shown in the various announcements of the War Industries Board, are effective, subject to such modifications as may from time to time be announced.

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Oct. 23, 1922

Gift of Mr. Sedgwick
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JAMES T. MCCLEARY, SECRETARY

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OF THE
American Iron and Steel Institute

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Subcommittee on Pig Tin

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Co., 120 Broadway, New York; G. D. Dorsey, assistant manager metal department, National Lead Co., New York.

Subcommittee on Scrap Iron and Steel

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Manufacturers of open-hearth steel—H. B. Spackman, Lukens Steel Co., Coatesville, Pa.; W. M. Tobias, Bethlehem Steel Co., Bethlehem, Pa.; Charles E. McKillips, Carnegie Steel Co., Pittsburgh.

Manufacturers of bar iron—John C. Brown, Lebanon Valley Iron & Steel Co., Lebanon, Pa.; Walter C. Ely, Highland Iron & Steel Co., Terre Haute, Ind.

Rerolling mills—D. C. Schonthal, West Virginia Rail Co., Huntington, W. Va.; Arthur S. Hook, Calumet Steel Co., Chicago.

Steel casting and electric furnace interests—T. E. Moritz, American Steel Foundries, Chicago; Rodney Thayer, Penn Seaboard Steel Corporation, Philadelphia.

Manufacturers of crucible steel—J. S. Pendleton, Carpenter Steel Co., Reading, Pa.

Manufacturers of gray iron and malleable castings—Benjamin D. Fuller, Westinghouse Electric & Mfg. Co., Cleveland.

Pacific Coast—Emory E. Smith, U. S. Shipping Board Building, San Francisco, California.

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Chairman—F. N. Beegle, president, Union Drawn Steel Co., Beaver Falls, Pa.; E. L. Parker, president, Columbia Steel

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Shafting Co., Pittsburgh; Roland Gerry, assistant general sales manager, Jones & Laughlin Steel Co., Pittsburgh.

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Chronology of Price Fixing

July 12, 1917—Statement by the Secretary of War:

"At the conference this morning between the Committee of the American Iron and Steel Institute and the Secretary of War, the Secretary of the Navy, the Chairman of the Shipping Board and Mr. Baruch, further discussion was had of the prospective demand upon the steel industry of the country for supplies of various steel products for carrying on the war. The steel men repeated their assurance that their entire product would be available for the need and that they were doing everything possible to stimulate an increased production and speed deliveries. The price to be paid for the iron and steel products furnished was left to be determined after the inquiry by the Federal Trade Commission is completed, with the understanding that the price, when fixed, would insure reasonable profits and be made with reference to the expanding needs of this vital and fundamental industry.

"The representatives of the Government assured the Committee of the Steel Institute that it was the intention of the Government to distribute the war requirements over the entire iron and steel producing capacity of the country."

Sept. 24, 1917—Statement issued by Committee on Public Information (Official Bulletin, Sept. 25, 1917):

"The President has approved an agreement between the War Industries Board and the steel men, fixing the following prices, which become effective immediately and are subject to revision Jan. 1, 1918, viz:

Commodity	Basis	Price agreed upon
Iron ore	Lower Lake ports	$5.05 per G. T.
Coke	Connellsville	6.00 per N. T.
Pig iron		33.00 per G. T.
Steel bars	Pittsburgh-Chicago	2.90 per 100 lb.
Shapes	Pittsburgh-Chicago	3.00 per 100 lb.
Plates	Pittsburgh-Chicago	3.25 per 100 lb.

"It was stipulated, first, that there should be no reduction in the present rate of wages; second, that the prices above named should be made to the public

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and to the Allies, as well as to the Government; and, third, that the steel men pledge themselves to exert every effort necessary to keep up the production to the maximum of the past, so long as the war lasts.

"Measures will be taken by the War Industries Board for placing orders and supervising the output of the steel mills in such manner as to facilitate and expedite the requirements of the Government and its Allies for war purposes, and to supply the needs of the public according to their public importance and in the best interest of all, as far as practicable.

"A spirit of co-operation was manifested by the steel men, and no doubt is entertained that every effort will be made to bring the production as nearly as possible up to the extraordinary demands resulting from the war."

Oct. 11, 1917—Statement issued by the War Industries Board of the Council of National Defense (Official Bulletin, Oct. 12, 1917):

"The President has approved an agreement between the War Industries Board and the steel men, fixing the following maximum prices, which become effective immediately, and are subject to revision Jan. 1, 1918.

Commodity	Basis	Price
Blooms and billets, 4 x 4 in. and larger	Pittsburgh-Youngstown	$47 50 per G. T.
Billets, under 4 x 4 in.	Pittsburgh-Youngstown	51.00 per G. T.
Slabs	Pittsburgh-Youngstown	50.00 per G. T.
Sheet bars	Pittsburgh-Youngstown	51 00 per G. T.
Wire rods	Pittsburgh	57.00 per G. T.
Shell bars, 3 to 5 in.	Pittsburgh	3.25 per 100 lb.
Over 5 to 8 in.	Pittsburgh	3.50 per 100 lb.
Over 8 to 10 in.	Pittsburgh	3.75 per 100 lb.
Over 10 in.	Pittsburgh	4.00 per 100 lb.
Skelp, grooved	Pittsburgh	2.90 per 100 lb.
Skelp, universal	Pittsburgh	3.15 per 100 lb.
Skelp, sheared	Pittsburgh	3.25 per 100 lb.

"The prices enumerated have been fixed by the President on the assurance of those representing the steel industry that these prices equitably adjust the

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relations of the steel interests to each other, and will assist them in fulfilling their obligations to give the country 100 per cent of production at not to exceed the prices heretofore announced.

"Measures will be taken by the War Industries Board for placing orders and supervising the output of the steel mills in such manner as to facilitate and expedite the requirements for war purposes of the Government and those nations associated with us, and to supply the needs of the public according to their public importance and in the best interest of all as far as practicable.

"A spirit of co-operation was manifested by the steel men and no doubt is entertained that every effort will be made to bring the production as nearly as possible up to the extraordinary demands resulting from the war."

Nov. 5, 1917—Announcement by Committee on Public Information (Official Bulletin, Nov. 6, 1917):

"The President has approved an agreement made by the War Industries Board with the principal steel industries of the United States, fixing maximum prices, subject to revision Jan. 1, 1918, on certain steel articles, as follows:

Sheets

	Per 100 lb.
No. 28 black sheets, f.o.b. Pittsburgh	$5.00
No. 10 blue annealed sheets, f.o.b. Pittsburgh	4.25
No. 28 galvanized sheets, f.o.b. Pittsburgh	6.25

The above prices to apply to both Bessemer and open-hearth grades.

Pipe

On ¾ in. to 3 in. black steel pipe—discount 52 and 5 and 2½ per cent, f.o.b. Pittsburgh.

Cold Rolled Steel

17 per cent discount from March 15, 1915, list f.o.b. Pittsburgh.

Scrap

	F.O.B. Consuming point.
No. 1 heavy melting	$30.00 per G. T.
Cast iron borings and machine shop turnings	20.00 per G. T.
No. 1 railroad wrought	35 00 per G. T.

Wire

Plain wire, f.o.b. Pittsburgh ..... $3.25 per 100 lb

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Tin Plate

Coke base, Bessemer and open-hearth, f.o.b. Pittsburgh, $7.75 per 100 lb. box

"In connection with the above, the iron and steel manufacturers have agreed promptly to adjust the maximum prices of all iron and steel products other than those on which prices have been agreed upon to the same general standard as those which have been announced. It is expected that this will be done promptly and consistently in line with the basic, intermediate, and finished products, for which definite maximum prices have been established."

Pursuant to the above announcement the Committee on Steel and Steel Products of the American Iron and Steel Institute received from a subcommittee reports based on information received from representative manufacturers of various other lines of steel and steel products, and from such reports and other data available, the Committee reached a conclusion as to fair and reasonable prices for such products in line with the basic, intermediate, and finished products, for which definite maximum prices have been established, and recommended to the industry under dates of Nov. 13, Nov. 20 and Dec. 22, 1917, and Jan. 7, 1918, that such prices be adopted as maximum prices, to take effect immediately, to apply to the requirements of the United States Government, to the requirements of the Allies and for domestic consumption within the United States. In making its recommendation, dated Jan. 7, 1918, the Committee added the following:

"The recommendations so far made by the Committee as to maximum prices, differentials, etc., cover the principal iron and steel products and the Committee does not at present deem it necessary to make further specific recommendations.

"In view of President Wilson's statement under date of Nov. 5, 1917, that the iron and steel manufacturers have agreed promptly to adjust the maximum prices of all iron and steel products other than those on which prices have been agreed upon, the Committee now recommends to the iron and steel industry that the prices of all iron and steel products, maximum prices for which have not been agreed to with the War Industries Board or recommended by the Committee, be promptly adjusted so as to be in line with the basic, in-

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termediate, and finished products for which definite maximum prices have been established. The Committee relies upon the patriotism and good faith of the iron and steel industry to accomplish this, and expresses the hope that all connected with the iron and steel industry will co-operate in the proper spirit to this end."

Dec. 28, 1917—Announcement by Committee on Public Information (Official Bulletin, Dec. 29, 1917):

"The President has approved the recommendation of the War Industries Board that the maximum prices heretofore fixed by the President upon the recommendation of the board upon ore, coke, pig iron, steel, and steel products, subject to revision on Jan. 1, 1918, be continued in effect until March 31, 1918. No new contracts calling for delivery of any of said commodities or articles on or after April 1, 1918, are to specify a price unless coupled with a clause making the price subject to revision by any authorized United States Government agency, so that all deliveries after that date shall not exceed the maximum price then in force, although ordered or contracted for in the meantime.

"It is expected that all manufacturers and producers will observe the maximum prices now fixed."

The Committee on Steel and Steel Products of the American Iron and Steel Institute calls the especial attention of the industry to the above announcement, which applies to all prices, differentials and extras recommended by the Committee.

Under date of Feb. 21, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made an announcement cancelling differentials on iron and steel scrap, together with interpretations in respect of same which had previously been announced, and recommended certain modified differentials to be in effect on and after Feb. 21, 1918. These modified differentials appear under the proper heading in the August, 1918, issue of the American Iron and Steel Institute pamphlet.

March 26, 1918—Announcement by the Council of National Defense (Official Bulletin, March 27, 1918):

"The President has approved the recommendation of the Price Fixing Committee of the War Industries

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Board that the maximum prices heretofore fixed by the President upon the recommendation of the board upon ore, coke, steel, and steel products, subject to revision on April 1, 1918, be continued in effect until July 1, 1918; from April 1 to July 1, however, the maximum price of basic pig iron be reduced from $33 to $32 per gross ton, and that the maximum price of scrap steel be reduced from $30 to $29 per gross ton. No new contracts calling for delivery of any of said commodities or articles on or after July 1, 1918, are to specify a price unless coupled with a clause making the price subject to revision by any authorized United States Government agency, so that all deliveries after that date shall not exceed the maximum price then in force, although ordered or contracted for in the meantime.

"It is expected that all manufacturers and producers will observe the maximum prices now fixed."

Under date of March 28, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made the following statement:

"Referring to the statement authorized by the Council of National Defense, under date of March 26, that 'The President has approved the recommendation of the Price Fixing Committee of the War Industries Board, that the maximum prices heretofore fixed by the President upon the recommendation of the board upon ore, coke, steel and steel products, subject to revision on April 1, 1918, be continued in effect until July 1, 1918; from April 1 to July 1, however, the maximum price of basic pig iron be reduced from $33 to $32 per gross ton, and that the maximum price of scrap steel be reduced from $30 to $29 per gross ton,' it should be explained that it is the understanding of this Committee that the reduction of $1 per gross ton is made on all prices of scrap, both base grades and differentials; the effect being to reduce by $1 per gross ton all prices shown in the differentials recommended by this Committee under date of February 21, 1918, and appearing on pages 14-A to 14-C inclusive of the list of maximum prices of iron and steel products, published by the American Iron and Steel Institute."

NOTE: This refers to the pamphlet published in January, 1918.

Under date of May 2, 1918, the Chairman of the

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Committee on Steel and Steel Products of the American Iron and Steel Institute, made the following statement:

"Referring to the statement made by me under date of March 28, 1918, the War Industries Board has authorized the following ruling in respect of scrap iron and steel:

"'(A) Consumers of scrap iron and steel employing an agent to purchase scrap for them may, at their discretion, pay as compensation for such service a sum not exceeding 3½ per cent of the agreed price at which such material is to be delivered, in cases where the agent guarantees the quality and delivery of an agreed tonnage of the material. This compensation shall be shown as a separate charge in billing; the material may not be invoiced at any price in excess of the maximums announced.

"'(B) Under no circumstances may a dealer or broker split or divide this extra sum which may be allowed him by a mill with any other dealer, broker or producer, and the highest price that any one under any circumstances may pay is the maximum price as stated in the announcement of the War Industries Board under date of March 26, 1918.'"

Under date of May 14, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made the following statement:

"The War Industries Board has confirmed this Committee's interpretation of President Wilson's announcement of December 28, 1917, viz: that all deliveries of iron ore, pig iron, bar iron, steel and steel products, made on and after April 1, 1918, under contracts entered into on and after December 28, 1917, shall not be invoiced at prices higher than the maximum prices in effect at time of delivery, as specified in President Wilson's announcement of March 27, 1918. It is hoped that all buyers and sellers of any of the above products will be governed by this ruling."

Under date of May 21, 1918, with correction under date of May 25, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute recommended certain changes and modifications in the maximum prices, differentials, etc., previously recommended by the Institute and pul

lished in its pamphlet dated January, 1918. The above mentioned modified maximum prices, differentials, extras, etc., appear under the proper headings in the August, 1918, issue of the American Iron and Steel Institute pamphlet.

June 21, 1918—The War Industries Board authorized the following statement (Official Bulletin, June 24, 1918):

"The President has approved the agreement made by the Price Fixing Committee of the War Industries Board with the representatives of the iron ore, pig iron and steel interests, that the maximum prices now prevailing on iron ore, pig iron and iron and steel products be continued in effect for the three months ending September 30, 1918, with the following exceptions:

"1. Lake Superior Iron Ore.

"Base prices of Lake Superior iron ore delivered to lower lake ports are increased 45c. per gross ton on and after July 1, 1918, subject to the following condition: These increased prices are based on the advances in rail freight rates effected June 25, 1918, and on the present lake rates and in the event of any increase or decrease in either rail or lake rates said prices shall be increased or decreased accordingly on all deliveries made during the continuance of such increased or decreased freight rates.

"2. On and after July 1, 1918, the basing point for steel bars, shapes and plates will be Pittsburgh, Pa.

"No new contracts calling for delivery of any of the above commodities or articles on or after October 1, 1918, are to specify a price unless coupled with a clause making the price subject to revision by any authorized United States Government agency, so that all deliveries after that date shall not exceed the maximum price then in force, although ordered or contracted for in the meantime. It is expected that all manufacturers and producers will observe the maximum prices now fixed."

Under date of July 16, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made an announcement modifying certain differentials on scrap iron and steel which are embodied under the proper headings in the August, 1918, issue of the American Iron and Steel Institute pamphlet.

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Under date of July 30, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made an announcement in regard to prices and differentials for certain iron and steel products which are embodied under the proper headings in the August, 1918, issue of the American Iron and Steel Institute pamphlet.

Under date of Aug. 12, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made the following statement:

"In order that rolling mills manufacturing bar iron, and also open-hearth steel plants, may secure shipments of wrought iron and steel turnings, it is hereby recommended that for a period of 30 days, commencing Monday, Aug. 19, and expiring Sunday, Sept. 22, no wrought iron or steel turnings of any character be shipped to blast furnaces for the manufacture of pig iron, with the exception of turnings that are being used strictly for the manufacture of low-phosphorus pig iron by the following interests:

Midvale Steel & Ordnance Co., Coatesville, Pa.
Robesonia Iron Company, Robesonia, Pa.
Northern Iron Company, Standish, N. Y.
Northern Iron Company, Port Henry, N. Y.
Cranberry Furnace Company, Johnson City, Tenn.
Delaware River Steel Company, Chester, Pa.
The Thomas Furnace Company, Milwaukee, Wis.
Eastern Steel Company, Pottstown, Pa.

"In the event of the turnings being of such nature that they cannot be used by rolling mills or steel plants, on presentation of these facts to:

W. Vernon Phillips, Chairman,
Subcommittee on Scrap Iron and Steel,
Pennsylvania Building,
Philadelphia, Pa.,

a special permit may be issued for such shipment.

"In cases where parties desiring to comply with this recommendation are now under contract for shipments of borings or turnings to blast furnaces it is believed that cancellation of pro rata portions of such contracts can be arranged on application to the Chairman of the Subcommittee on Scrap Iron and Steel.

"It is hoped that all interests concerned will rigidly follow this request, as it is of vital necessity at this time."

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August 27, 1918—The War Industries Board authorized the following statement (Official Bulletin, August 30, 1918):

"At a meeting of the Price Fixing Committee, held Aug. 27, the following resolution was passed:

"*Be it Resolved*, That where prices are stated to be fixed for the United States Government, the governments associated with it in this war, and the public (or primary civilian sales), the said prices are hereby declared to extend to the Government and civilians of the United States (including civilians of its territories and insular possessions), and to the following governments, *i. e.*, Great Britain, France, Italy, Belgium and Japan.

"*And be it further Resolved*, That these maximum prices shall not extend to purchases made by the civilians of the latter mentioned allied nations nor to the governments or civilians of nations other than those above enumerated."

All prices, differentials and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute have the same application.

Under date of September 12, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute issued a statement modifying prices, differentials, etc., on steel bands, hoops and strips, steel castings, tinplate, and wire rope, all of which are embodied under the proper headings in the November, 1918, issue of the American Iron and Steel Institute pamphlet.

September 24, 1918—The War Industries Board authorized the following statement (Official Bulletin, September 24, 1918):

"The President has approved the agreement made by the Price Fixing Committee of the War Industries Board with the representatives of the iron ore, pig iron and steel interests, that the maximum prices now prevailing on iron ore, pig iron and iron and steel products be continued in effect for

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the three months ending December 31st, 1918, with the following exceptions:

"1. Lake Superior Iron Ore.

"Base prices of Lake Superior iron ore delivered to lower lake ports are increased 25c. per gross ton on and after October 1, 1918, subject to the following condition: These increased prices are based on the rail freight rates now in effect and on the present lake rates and in the event of any increase or decrease in either rail or lake rates said prices shall be increased or decreased accordingly on all deliveries made during the continuance of such increased or decreased freight rates.

"2. Pig Iron.

"The base price on basic iron is increased to $33 f.o.b. furnace. The base price on No. 2 foundry iron is increased to $34 f.o.b. furnace. The price of standard Bessemer iron is fixed at $35.20 f.o.b. furnace. The above prices are subject to the following changes from previous practice as regards delivery:

"(a) Pig iron produced in the Virginia, Tennessee and Birmingham districts and scattering districts South of the Ohio and Potomac Rivers, including furnaces at St. Louis, Mo., but not including furnaces bordering on the Ohio River, shall be sold on an f.o.b. Birmingham, Alabama, basis.

"(b) Pig iron produced in the Eastern district, *i.e.*, from all blast furnaces located East of the Allegheny Mountains and North of the Potomac River, shall be sold on an f.o.b. Pittsburgh basis.

"(c) Pig iron from all other producing districts or furnaces shall be sold f.o.b. furnaces as heretofore.

"No new contracts calling for delivery of any of the above commodities or articles on or after January 1, 1919, are to specify a price unless coupled with a clause making the price subject to revision by any authorized United States Government Agency, so that all deliveries after that date shall not exceed the maximum price then in force, although ordered or contracted for in the meantime. It is expected that all manufacturers and producers will observe the maximum prices now fixed."

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Under date of September 26, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute issued the following statement:

"The agreement made by the Price Fixing Committee of the War Industries Board with the representatives of the iron ore, pig iron and steel interests, apptoved by the President and announced under date of September 24, 1918, increases prices of Lake Superior iron ore, and base prices on certain grades of pig iron, and makes changes from previous practice as regards delivery of pig iron; all to be in effect for the three months ending December 31, 1918.

"The Committee on Steel and Steel Products has received from a sub-committee reports based on information received from representative manufacturers of various lines of steel and steel products, and from such reports and other data available the Committee has concluded that certain changes and modifications in the maximum prices, differentials, extras, etc., as heretofore recommended by the Institute, are fair and reasonable; and the Committee recommends that such revised maximum prices, differentials and extras be adopted to take effect on and after October 1, 1918."

The above mentioned increased prices and changes approved by the President, as well as the revised maximum prices, differentials and extras recommended by this Committee, are embodied under the proper headings in the November, 1918, issue of the American Iron and Steel Institute pamphlet.

Under date of September 26, 1918, on recommendation of the Subcommittee on Scrap Iron and Steel, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made the following announcement:

"The Revenue Bill approved Oct. 3, 1917, imposing a war tax on freight, states that such tax shall be paid by the 'person, corporation, partnership or association paying for the services or facilities rendered.'

"In cases where the prices on products of iron or steel contemplate delivery to buyer's works, the war tax on the freight is payable by the seller. The buyer may, at his

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option, agree to pay the war tax on the freight, but may not do so if such payment makes the price which he pays for the material exceed the maximum price.

"Sellers of scrap iron and steel must deduct the freight, plus the war tax, in determining the maximum price f.o.b. shipping point."

Under date of October 3, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute enumerated a number of corrections in the prices announced by the Committee on September 26, 1918, all of which will be found under the proper headings in the November, 1918, issue of the American Iron and Steel Institute pamphlet.

Under date of October 10, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute issued a statement concerning extras for packing for barbed wire; also a statement concerning warehouse prices, all of which are embodied under the proper headings in the November, 1918, issue of the American Iron and Steel Institute pamphlet.

Under date of October 17, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute issued a statement embodying changes in the maximum prices, differentials, etc., of iron bars previously recommended by the Institute and published in its pamphlets dated January, 1918, and August, 1918. These changes appear under the proper heading in the November, 1918, issue of the American Iron and Steel Institute pamphlet.

Under date of November 14, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute issued a statement embodying changes and modifications in the differentials and extras, etc., in pig iron, wire rods, and warehouse prices as heretofore recommended by the Institute, all of which are embodied in the proper headings in the November, 1918, issue of the American Iron and Steel Institute pamphlet.

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TO BE USED FOR ADDITIONAL ANNOUNCEMENTS FOR IRON OR STEEL

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Announcements Regarding Ferroalloys and Manganese and their Ores

Under date of May 16, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made the following statement:

"As the result of an investigation in the trade made by the Subcommittee on Ferroalloys of the American Iron and Steel Institute, and of a meeting of the consumers of ferromanganese and spiegeleisen held in Pittsburgh on May 7, pursuant to call of the Subcommittee on Ferroalloys, and from other data available, the Committee on Steel and Steel Products recommends to the trade that a manganese content of 70 per cent for ferromanganese, and 16 per cent for spiegeleisen be adopted as standard, instead of the existing current standards of 78 per cent to 82 per cent manganese in ferromanganese, and 19 per cent to 21 per cent manganese, or higher, in spiegeleisen; that deliveries of material of the new recommended standard be accepted as good deliveries on existing contracts, with proper adjustment of tonnage and price; and that no ferromanganese or spiegeleisen be made hereafter of higher manganese content than as above recommended, except with the approval of this Committee, which will consider any special requests from consumers, who can show the necessity of a higher manganese content, when submitted through the Subcommittee on Ferroalloys.

"The Committee on Steel and Steel Products is of opinion that a proper adjustment of tonnage would contemplate the delivery of the same total tonnage of contained metallic manganese as is due on undelivered balances of existing contracts.

"The above recommendations are made because of the necessity of the maximum possible conservation of shipping, and the consequent need to utilize domestic ores to the greatest extent possible.

"The Committee relies on the patriotism and good faith of the iron and steel industry to accomplish this, and expresses the hope that all connected with the iron and steel industry will co-operate in the proper spirit to this end."

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Under date of May 21, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made the following statement:

"As a result of an investigation in the trade, made by the Subcommittee on Ferroalloys of the American Iron and Steel Institute, and of a meeting of the consumers of chrome ore for refractory purposes in steel manufacture, held in Pittsburgh on May 7, pursuant to call of the Subcommittee on Ferroalloys, and from other data available, the Committee on Steel and Steel Products recommends to the steel industry that it restrict the use of chrome ore for direct refractory use to a maximum of 1½ lbs. per ton of open-hearth ingots; that it purchase for the above purposes only domestic or Canadian ores containing not to exceed 38 per cent chromic oxide, nor more than 35 per cent chromic oxide as an average, each carload to be considered as a separate unit for analysis. The Committee recommends that the use of chrome brick and chrome cement do not exceed the equivalent of a maximum of ½ lb. chrome ore per ton of ingots. The Committee urges that every effort be made to find substitutes for chrome ore for refractory use in open-hearth steel making, with a view to effecting the maximum possible reduction in the use of chrome ore, without curtailing steel production.

"The Committee further recommends that producers or sellers of chrome ore restrict the sales of such ores for refractory purposes to the above mentioned maximum and average percentages of chromic oxide.

"The stocks of foreign ores on hand, together with those to be brought in during the year ending April 1, 1919, will not permit the use by the ferrochrome and chemical trades of a chrome ore mixture averaging higher than 45 per cent chromic oxide. The Committee recommends that the ferrochrome and chemical trades begin at once the use of such mixture, acquiring promptly the domestic or Canadian ores necessary therefor.

"This Committee will consider the requests of any steel manufacturer whose special conditions seem to require a greater consumption of chrome ore than above recommended, when such requests are submitted through the Subcommittee on Ferroalloys and have received its approval.

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"The above recommendations are made because of the necessity for the maximum possible conservation of shipping, and the consequent need to utilize domestic and Canadian ores to the greatest extent possible.

"The Committee relies on the patriotism and good faith of the iron and steel, ferrochrome and chemical industries to accomplish this, and expresses the hope that all connected with these industries, as well as the producers and sellers of chrome ores, will co-operate in the proper spirit to this end."

Under date of June 8, 1918, the Secretary of the Committee on Steel and Steel Products of the American Iron and Steel Institute sent the following letter to the manufacturers of chrome brick and chrome cement:

"Referring to Judge Gary's announcement of May 21, in respect of chrome ore, as published in the *Iron Age* issue of May 23:

"I am advised that the Committee's recommendations that producers or sellers of chrome ores restrict the sales of such ores for refractory purposes to ores containing a maximum of 38 per cent chromic oxide and not more than 35 per cent chromic oxide as an average is not clearly understood to refer to sales of chrome ore for use in the manufacture of chrome brick and chrome cement.

"This is to advise you that it was the Committee's intention to recommend that the sale, and consequently the purchase, of chrome ore for use in the manufacture of chrome brick and chrome cement should be restricted to ores averaging not more than 35 per cent chromic oxide and containing not more than 38 per cent as a maximum.

"I shall appreciate your advices that this is clearly understood, and that you expect to govern yourself accordingly."

Under date of July 16, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute, made the following statement:

"In a statement issued by me under date of May 16, 1918, the Committee on Steel and Steel Products

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recommended to the trade that a manganese content of 70 per cent for ferromanganese, and 16 per cent for spiegeleisen be adopted as standard, and that deliveries of material of the new recommended standard be accepted as good deliveries on existing contracts, with proper adjustment of tonnage and price.

"In order to avoid possible misunderstanding the Committee now desires to make it clear that its recommendation that deliveries of material of the new recommended standard be accepted as good deliveries on existing contracts was intended to refer to existing contracts for ferromanganese or spiegel of domestic manufacture only, and that the Committee is of opinion that contracts for foreign ferromanganese or spiegeleisen in effect on May 16, 1918, should be filled in accordance with the terms of the contract and current customs of the trade at the time the contracts were entered into.

"The Committee recommends that importers and dealers in foreign ferromanganese and spiegel and purchasers thereof be governed accordingly."

Under date of July 29, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made the following statement relative to chrome ore and its uses:

"My announcement of May 21 with respect to the grades of chrome ore available for refractory purposes stated that no ore containing more than 38 per cent chromic oxide or averaging more than 35 per cent chromic oxide should be used for these purposes. A letter from the Secretary of this Committee to the manufacturers of chrome brick and chrome cement called their attention to the fact that the above recommendation was intended to apply to chrome ore for use in the manufacture of chrome brick and chrome cement.

"Producers and dealers in chrome ore have advised the Subcommittee on Ferroalloys that in view of the higher prices being paid for the higher grades by the ferroalloys and chemical trades, sufficient quantities of chrome ore running below 38 per cent will probably not be available to meet the requirements of the refractories trade to the extent recommended in my announcement of May 21. To meet these conditions, it has been

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recommended that the chromic oxide limits for refractory uses be increased, and it will therefore be in order, until further notice, for users of chrome ores for refractory purposes, including the manufacture of chrome brick and chrome cement, to purchase and use chrome ore for these purposes running not over 43 per cent chromic oxide and averaging not over 40 per cent chromic oxide, each carload to be considered as a separate unit for analysis."

Under date of September 26, 1918, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute made the following statement:

"The Committee, on recommendation of the Subcommittee on Ferroalloys, calls the attention of all users of domestic chrome ore for refractory purposes to the desirability of covering their current market requirements before the close of the domestic shipping season which, depending on weather conditions, will probably end in November next.

"Some question has arisen among consumers of chrome ore for refractory purposes as to the proper procedure in cases where chrome ore, purchased with the expectation that it will not exceed 43 per cent in chromic oxide, upon receipt and analysis is found to contain more than 43 per cent in chromic oxide. In such cases, where it is desired to retain and use such ore, if full data is submitted to the Subcommittee on Ferroalloys, through its Secretary, Mr. A. A. Fowler, 30 Church Street, New York City, permission will be given to receive and use such chrome ore, unless in the judgment of the Subcommittee on Ferroalloys there are valid reasons to the contrary."

Under date of September 26, 1918, the Secretary of the American Iron and Steel Institute sent the following letter to all steel manufacturers using chrome ore:

"The Subcommittee on Ferroalloys desires to express to the iron and steel industry its appreciation of the very satisfactory results obtained in reducing the consumption of chrome ore in steel making. The Subcommittee desires definite information as to any cases where the restricted use of chrome ore may have seemed to work any injury in the quality of the product or in reducing the life of furnaces. The committee also desires to know whether any special increases in costs have resulted from the reduced use of chrome ore, or the sub-

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stitution of other material for it. To this end the committee would be glad to have you give at the earliest possible date a specific answer to the following questions.

"1—Has the reduced use of chrome ore for refractory purposes by your concern affected the quality or quantity of your ingot production?

"2—Has it, so far as you are able to observe, reduced the life of your furnaces, and if so to what extent has the reduced life affected your annual output of ingots or finished steel?

"3—If the reduced consumption has increased or decreased your costs, please indicate approximately to what extent, specifying how much of the increase or decrease is due to (a) quality of product, (b) amount of output, (c) reduced life of furnaces, and (d) direct expenses.

"Judge Gary's announcement of May 21, 1918, urged the maximum possible reduction in the use of chrome ore without curtailing steel production, and it is very desirable that the Subcommittee be informed as to the real situation."

Under date of November 1, 1918, the Secretary of the American Iron and Steel Institute sent the following letter to users of chrome ore for refractory purposes:

"The Subcommittee on Ferro-alloys is gratified to note from the replies received to our letter of September 26th that the steel makers have not permitted the reduced consumption of chrome ore to interfere seriously with the quality or output of steel. We note, however, in some of the replies that a reduced life of the furnaces resulted from cutting down the use of chrome ore, and that indirectly some loss of production has occurred. Also, that in some cases the use of magnesite as a substitute has increased costs.

"Mr. Sanford, of the War Industries Board, is of the opinion that the crisis in the chrome situation has been passed, and that the supplies of domestic ore are now of sufficient volume to permit the removal of restrictions from desirable use of chromite in the refractory trade.

"In view of the above we beg to advise you that any increases in the use of chrome ore which will help to maintain quality, increase production or reduce costs should be encouraged, and will meet with the approval of the American Iron and Steel Institute.

"Please do not fail to note in your monthly report to the Institute any increase which may occur in the use of chrome-ore by your works."

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TO BE USED FOR ADDITIONAL FERROALLOY ANNOUNCEMENTS

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PITTSBURGH BASIS—YOUNGSTOWN BASIS

The established meaning of Pittsburgh basis or Youngstown basis is that the price is f.o.b. Pittsburgh or f.o.b. Youngstown, plus the official all-rail freight rate in effect from Pittsburgh or from Youngstown to destination on date of shipment, less the official all-rail freight rate in effect from seller's works to destination on date of shipment; and that the point of delivery is f.o.b. mill, except when otherwise specifically stated.

Ruling

When the base price of a material is named as f.o.b. Pittsburgh it must be delivered at such price at any point within the switching limits of Pittsburgh, as shown by the official switching tariffs, provided the through inbound rate from a point outside the Pittsburgh switching limits covers such delivery. The effect of this is that in the case of material shipped by a manufacturer whose plant is located within the Pittsburgh switching district to a consumer located in that district, the shipper must absorb the switching charge to the point of delivery covered by through inbound rates. This has been the long established practice of manufacturers in the Pittsburgh district, and is based on the fact that manufacturers located outside of Pittsburgh can effect delivery to Pittsburgh consumers without charges other than the through freight rate from their works to the Pittsburgh district, which creates a condition which must be met by manufacturers located in the Pittsburgh district.

Exceptions to the above are as follows :

1. In the case of sales to railroads having tracks within the Pittsburgh switching district, a manufacturer whose plant is located within the Pittsburgh switching district absorbs the switching charge to the nearest junction point of the purchasing railroad only, provided such junction point is within the Pittsburgh switching district.

2. Owing to the fact that there are no sheet and tinplate mills in Pittsburgh, it has been the custom for many years to add an arbitrary rate for delivery in the Pittsburgh district on sheets, tinplate and roofing, so that on these materials the price to a consumer in the Pittsburgh district is the base price plus the above mentioned arbitrary rates, which are as follows:

Sheet and tinplate, carloads.....5c per 100 lb. minimum
Less than carloads.....6c per 100 lb. minimum
Painted and galvanized roofing, carloads.....7c per 100 lb. minimum
Less than carloads.....8c per 100 lb. minimum

The principle, as above established, for Pittsburgh as a basing point, with the exception of the arbitrary on sheets, tinplate and roofing, will apply where a price is named with any other point than Pittsburgh as a basing point.

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Maximum Prices on Iron and Steel Products With Differentials and Extras

As agreed upon by Government Officials and Committees of the American Iron and Steel Institute; together with Prices, Extras and Differentials recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute.

Iron Ore

(Base price approved by President Wilson, Sept. 24, 1917.)

Base price for Mesabi Range non-Bessemer ore at Lower Lake ports, see page 7, per gross ton..... $5.05

With the customary differentials for other grades as shown in comparison in the following table:

Grades	Per Cent Natural Iron	Per Cent Phosphorus (Ore Dried at 212° F.)	Price at Lower Lake Ports
Old Range Bessemer.....	55.00	.045	$5.95
Mesabi Range Bessemer.....	55.00	.045	5.70
Old Range non-Bessemer.....	51.50	....	5.20
Mesabi Range non-Bessemer...	51.50	....	5.05

The above prices are subject to the customary differentials for variations in quality and analysis.

Iron ore from other than Lake Superior districts will be based on the above prices, with the customary differentials, according to the district, that have heretofore obtained.

By agreement with the War Industries Board, approved by the President, June 22, 1918 (see page 14), and Sept. 24, 1918 (see pages 16 and 17), prices of Lake Superior ore were advanced, effective July 1, 1918, and Oct. 1, 1918. The prices which became effective on October 1 are shown in the following table:

Grades	Per Cent Natural Iron	Per Cent Phosphorus (Ore Dried at 212° F.)	Price at Lower Lake Ports
Old Range Bessemer.....	55.00	.045	$6.65
Mesabi Range Bessemer.....	55.00	.045	6.40
Old Range non-Bessemer.....	51.50	....	5.90
Mesabi Range non-Bessemer ..	51.50	....	5.75

The above prices are subject to the customary differentials for variations in quality and analysis.

The advanced prices are subject to the following conditions, viz.:

"These increased prices are based on the rail freight rates now in effect, and on the present lake rates, and in the event of any increase or decrease in either rail or lake rates said prices shall be increased or decreased accordingly on all deliveries made during the continuance of such increased or decreased freight rates."

Prices of iron ores from other than Lake Superior districts were not advanced and continue to be based on the prices approved by the President Sept. 24, 1917, with the customary differentials, according to the district, that have heretofore obtained.

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Pig Iron

(Base prices approved by President Wilson, March 27, 1918 (see page 7), and Sept. 24, 1918 (see pages 16 and 17.)

Base price for No. 2 foundry pig iron, f.o.b. furnace, per gross ton..$34.00

Base price for basic pig iron, f.o.b. furnace, per gross ton..... 33.00

Base price for Bessemer pig iron, not over 3 per cent silicon, f.o.b. furnace, per gross ton..... 35.20

The above prices are subject to the following changes from previous practice as regards delivery:

(*a*) Pig iron produced in the Virginia, Tennessee and Birmingham districts and the scattering districts south of the Ohio and Potomac rivers, including furnaces at St. Louis, Mo., but not including furnaces bordering on the Ohio River, shall be sold on an f.o.b. Birmingham, Ala., basis.

(*b*) Pig iron produced in the Eastern district, *i.e.*, from all blast furnaces located east of the Allegheny Mountains and north of the Potomac River, shall be sold on an f.o.b. Pittsburgh basis.

(*c*) Pig iron from all other producing districts or furnaces shall be sold f.o.b. furnace as heretofore.

Subject to the following list of differentials and extras, recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 2, 1917, May 21, 1918, July 30, 1918, Sept. 26, 1918, and Nov. 14, 1918.

The grade of No. 2 foundry iron to be equivalent in analysis to:

Silicon.....1.75 to 2.25
Sulphur.....Not over 0.05

No. 2 soft Southern iron equivalent to No. 2 foundry of same silicon content.

Differentials from the above base price for No. 2 foundry iron to be made for the following grades:

Forge or mill iron.....$1.00 per gross ton under base
Malleable iron not over 2.25 silicon..... 0.50 per gross ton above base
Malleable iron 2.25 to 2.75 silicon..... 1.25 per gross ton above base
Malleable iron 2.75 to 3.00 silicon..... 3.00 per gross ton above base

Manganese, sulphur and phosphorus variations to be adjusted as formerly customary in each district, having respect to the base price.

Where iron is sold by fracture, the usual grading prevailing in each district to continue.

Foundry and Bessemer irons are subject to the following differentials for silicon, to be added to the base prices:

Foundry Iron

Silicon 1.00 to 1.75.....$0.50 under base
Silicon 1.75 to 2.25.....Base
Silicon 2.25 to 2.75.....$1.25
Silicon 2.75 to 3.25..... 3.00
Silicon 3.25 to 3.75..... 5.00
Silicon 3.75 to 4.25..... 6.00
Silicon 4.25 to 4.75..... 7.00
Silicon 4.75 to 5.25..... 8.00
Silicon 5.25 to 5.75..... 9.00
Silicon 5.75 to 6.00..... 9.00

Bessemer Iron

Silicon 3.00 to 3.50.....$2.00
Silicon 3.50 to 4.00..... 3.00
Silicon 4.00 to 4.50..... 4.00
Silicon 4.50 to 5.00..... 5.00

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Charcoal Iron

Southern or warm blast charcoal iron, ranging from 0.40 to 0.60 phosphorus:

For silicon up to 2.00 per cent, a maximum of $17.00 per gross ton over base.

For silicon over 2.00 per cent, add to above differential $1.00 for each one-half per cent of silicon above 2 per cent.

Cold blast charcoal iron, a maximum of $47.00 per gross ton above base, with customary reductions for lower grades, as recognized by the trade.

Northern semi-cold blast iron, a maximum of $37.00 per gross ton above base.

Lake Superior iron, $2.50 per gross ton above base for iron averaging 1.25 per cent silicon. Other grades to be adjusted as per the custom of the trade, depending upon the silicon, phosphorus and manganese contents of the iron.

Muirkirk charcoal iron, a maximum of $37.00 per gross ton above base.

All of these charcoal iron differentials to be considered in connection with the base price.

High Silicon or Silvery Iron

For iron containing:

6 per cent silicon	$10.00 per gross ton above base
7 per cent silicon	11.00 per gross ton above base
8 per cent silicon	13.50 per gross ton above base
9 per cent silicon	15.50 per gross ton above base
10 per cent silicon	18.00 per gross ton above base

Three dollars per gross ton advance for each 1 per cent silicon for 11 per cent and over.

Bessemer Ferro-silicon

For iron containing:

10 per cent silicon	$23.00 per gross ton above base
11 per cent silicon	26.30 per gross ton above base
12 per cent silicon	29.60 per gross ton above base
13 per cent silicon	37.00 per gross ton above base
14 per cent silicon	45.00 per gross ton above base
15 per cent silicon	51.00 per gross ton above base
16 per cent silicon	54.00 per gross ton above base
17 per cent silicon	57.00 per gross ton above base
18 per cent silicon	60.00 per gross ton above base
19 per cent silicon	63.00 per gross ton above base
20 per cent silicon	66.00 per gross ton above base

All the above differentials apply to ferro-silicon whether made in a blast furnace or in an electric furnace

Low-Phosphorus Iron

Iron containing phosphorus and sulphur not exceeding 0.04 and silicon not exceeding 2 per cent.

For copper free iron—copper not exceeding 0.04.....$20.00 per gross ton above base.

For copper bearing iron—copper not exceeding 0.25..$19.00 per gross ton above base.

For copper bearing iron—copper not exceeding 0.50..$18.00 per gross ton above base

For copper bearing iron—copper over 0.50.....$17.00 per gross ton above base.

A sliding scale of $1.50 per gross ton advance for each reduction in phosphorus of 0.005 per cent below 0.04 and $1.75 per gross ton advance for each 1 per cent silicon in excess of 2 per cent.

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For iron with phosphorus over 0.04 use following scale:

Phosphorus	Add to Base Price Per Gross Ton			
	Copper 0.04 Maximum	Copper 0.25 Maximum	Copper 0.50 Maximum	Copper Over 0.50
0.040 maximum	$20.00	$19.00	$18.00	$17.00
0.045 maximum	17.50	16.50	15.75	15.00
0.050 maximum	15.00	14.25	13.50	13.00
0.055 maximum	12.50	12.00	11.50	11.00
0.060 maximum	10.00	9.50	9.25	9.00
0.065 maximum	6.50	6.50	6.50	6.50
0.070 maximum	5.50	5.50	5.50	5.50
0.075 maximum	5.00	5.00	5.00	5.00
0.075–0.09 maximum		Use Bessemer Price		

Special Car Wheel or Cylinder Iron

The price for Virginia or other special car wheel or cylinder irons containing over 1.00 per cent manganese may be made by adding to the base price the following differentials for manganese:

Manganese.....1.00% to 1.50% add $.50 per ton
Manganese.....1.50% to 2.00% add 1.50 per ton
Manganese.....2.00% to 2.50% add 2.50 per ton
Manganese.....2.50% to 3.00% add 3.50 per ton
Manganese.....3.00% to 3.50% add 4.50 per ton
Manganese.....3.50% to 4.00% add 5.50 per ton
Manganese.....4.00% to 4.50% add 6.50 per ton
Manganese.....4.50% to 5.00% add 7.50 per ton
Manganese.....5.00% to 5.50% add 8.50 per ton
Manganese.....5.50% to 6.00% add 9.50 per ton

Differentials

All differentials on pig iron are to be added to or deducted from the base price of No. 2 foundry pig iron, except the silicon differentials for Bessemer iron, which are to be added to the base price of Bessemer iron not over 3 per cent silicon.

The f.o.b. Birmingham and Pittsburgh basis for pig iron does not apply to either charcoal or low-phosphorus iron. Prices for these irons continue to be f.o.b. furnace as heretofore, no matter where the furnace producing same is located.

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Iron and Steel Scrap

(Base prices approved by President Wilson, November 5, 1917.)

Prices f.o.b. consuming point, see page 9 :

No. 1 heavy melting scrap	$30.00
Cast iron borings and machine shop turnings	20.00
No. 1 railroad wrought	35.00

On December 27, 1917, the Chairman of the Committee on Steel and Steel Products of the American Iron and Steel Institute announced certain differentials on iron and steel scrap. By subsequent announcements under dates of February 21, 1918, March 28, 1918, May 2, 1918, May 21, 1918, July 16, 1918, July 30, 1918, and September 26, 1918, and by statement of the Council of National Defense under date of March 26, 1918, **the above prices and said differentials were changed and modified. Such changes and modifications are embodied in the following schedule:**

No. 1. No. 1 HEAVY MELTING STEEL ..... BASE MAXIMUM $29.00

No scrap to be used for remelting into steel shall be dealt in at a price in excess of the maximum base. This shall include all steel, wrought iron, cast iron car wheels, malleable scrap or other grades to be melted in basic open-hearth furnaces (except as noted in clauses 2, 3 and 4).

No. 2. LOW PHOSPHORUS STEEL SCRAP.

(a) To be used only in plants operating acid open-hearth furnaces, crucibles or electric furnaces. This grade, which shall consist of billet, bloom, bar and plate crop-ends, axle butts and new mill plate shearings ¼ inch thick and heavier, no piece to weigh less than 10 pounds, all in charging-box shape and which will analyse 0.04 and under in both phosphorus and sulphur, may be dealt in at a differential of not exceeding $10.00 per ton over the base price of heavy melting steel ..... MAXIMUM $39.00

Note.—Low phosphorus steel scrap may only be dealt in under schedule 2 (a) when it consists of the specific material stated therein.

(b) All other grades of low phosphorus steel scrap to be used in such plants, which will analyse 0.04 and under in both phosphorus and sulphur, may be dealt in at a differential of not exceeding $7.50 per ton above the base price of heavy melting steel..... MAXIMUM $36.50

Note.—Shell steel scrap and ship-plate shearings, when guaranteed 0.04 and under in phosphorus and sulphur, must be sold under schedule 2 (b).

(c) Steel knuckles and couplers, rolled steel wheels, railway steel springs, carbon tool steel and similar material in quality and character, which will analyze .06 and under in phosphorus and sulphur, may be dealt in for use in such plants at a differential of not exceeding $5.00 per gross ton above the base price of heavy melting steel..... MAXIMUM $34.00

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Note.—Material under this classification may not be dealt in for use by basic open-hearth plants using charging boxes at a price in excess of the maximum allowed for heavy melting steel ($29.00).

No. 3. Steel rails 3 ft. and under, steel splice bars and steel rails, structural steel or similar scrap which has been especially sheared to short lengths for use in cupolas, hand-charging furnaces or for rerolling purposes, may be dealt in at a differential of not exceeding $5.00 above the base price of heavy melting steel .....MAXIMUM $34.00

Note.—Material under this classification may not be dealt in for use by basic open-hearth plants using charging boxes at a price in excess of the maximum allowed for heavy melting steel ($29.00).

No. 4. Standard section old steel tee rails, free from frog, guard and switch rails, 56 lb. per yard and heavier, 5 ft. and over in length, suitable for and to be used only for rerolling purposes, may be dealt in at a differential of not exceeding $5.00 per gross ton over the price of heavy melting steel .....MAXIMUM $34.00

No. 5. NICKEL STEEL.

Nickel steel scrap, excluding turnings and containing not over one-half of 1 per cent of chrome, may be dealt in at the maximum price of heavy melting steel plus a differential of not exceeding $4.00 per ton per unit on the nickel content.

No. 6. No. 1 RAILROAD WROUGHT.....MAXIMUM $34.00

(a) No. 1 railroad wrought scrap may be dealt in at a price of not exceeding $34.00 per gross ton.

(b) When wrought scrap is especially sheared or prepared for piling or faggoting purposes to lengths of not under 10 in. or over 24 in., it may be dealt in at a differential of not exceeding $5.00 per ton over the base price of No. 1 railroad wrought, but this may not include short wrought or other material which has not been especially prepared .....MAXIMUM $39.00

(c) Wrought-iron railroad angle or splice bars, iron or steel shafting, suitable for rerolling, old iron rails, iron boiler-plate cut apart in sheets and rings, wrought iron bridge scrap cut apart and similar wrought iron suitable for making sides and bottoms for box piling, may be dealt in at a differential of not exceeding $5.00 over the base price of No. 1 railroad wrought.....MAXIMUM $39.00

(d) No. 1 yard wrought, railroad track scrap and short wrought, also wrought iron and steel pipe, when 1 in. and over in diameter, 2 ft. and over in length, free from dirty, painted, enameled or coiled and bent material, may be dealt in at a maximum of $1.00 per ton under the base price of No. 1 railroad wrought.....MAXIMUM $33.00

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(e) The commodity known in the trade as No. 1 bushelling scrap, when suitable for and to be used only by mills manufacturing bar iron, may be dealt in at a maximum of $3.00 per ton under the base price of No. 1 railroad wrought. .....MAXIMUM $31.00

(f) Ungraded wrought iron and steel pipe and tubes. steel boiler-plate cut apart, in sheets and rings, country wrought and soft steel mixed, may be dealt in at a maximum of $5.00 under the base price of No. 1 railroad wrought scrap .....MAXIMUM $29.00

No. 7. Iron and steel railway axles, arch-bars and transoms, old locomotive tires smooth inside and sheet bar crop-ends, when suitable for and to be used only for rerolling purposes, may be dealt in at a differential of $12.50 per ton over the base price of No. 1 railroad wrought. .....MAXIMUM $46.50

No. 8. CAST IRON SCRAP.

(a) All cast iron scrap, whether broken or unbroken, including cast iron car wheels, may be dealt in at a maximum price of not exceeding that of heavy melting steel, except as noted in clause b.....MAXIMUM $29.00

Note.—Burnt iron, burnt grate bars, stove plate, brake shoes, soil pipe, and all other inferior grades of cast scrap may not be dealt in at any price in excess of the maximum price of heavy melting steel.

(b) Strictly No. 1 cast iron scrap in cupola shape, in pieces not exceeding 150 lbs., when suitable for and to be used only in cupolas or in puddling furnaces, may be dealt in at a differential of not exceeding $5.00 per gross ton over the maximum price of heavy melting steel.....MAXIMUM $34.00

(c) Malleable scrap of all kinds may be dealt in at not exceeding the maximum price of heavy melting steel. (Exception—as noted in clause d).....MAXIMUM $29.00

(d) Malleable scrap in cupola shape, in pieces not over 150 lb., when suitable for and to be used only in malleable works, may be dealt in at a differential of not exceeding $5.00 per ton over the maximum price of heavy melting steel .....MAXIMUM $34.00

Note.—Cast iron scrap or malleable scrap of any description may not be dealt in for use by basic open-hearth furnaces at a price in excess of the maximum allowed for heavy melting steel ($29.00).

No. 9. MACHINE SHOP TURNINGS.

(a) The term "machine shop turnings" shall apply to all grades of iron or steel turnings except as noted in clauses b and c.....MAXIMUM $19.00

Note.—No additional price will be allowed for shell turnings based on their analysis.

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(b) Heavy axle and forge turnings, or their equivalent, may be dealt n at a price of not exceeding $5.00 per ton over the maximum price of machine shop turnings.....MAXIMUM $24.00

Note.—Shell steel turnings may only be sold under schedule 9 (b) when the heavy cuts have been separated to conform with that schedule.

(c) Nickel steel turnings containing not over one-half of 1 per cent of chrome may be dealt in at a price of not exceeding $5.00 per ton over the base price of machine shop turnings, plus a differential of not exceeding $4.00 per ton per unit on the nickel content.

No. 10. CAST IRON BORINGS.....MAXIMUM $19.00

This classification shall cover all grades of cast iron borings except for the special purpose indicated in clause (a).

(a) Cast iron borings and steel turnings, when suitable for and to be used only by chemical plants or plants operating for purposes other than the remanufacture into iron or steel products, may be dealt in at a differential of not exceeding $5.00 above the base price.....MAXIMUM $24.00

The above prices are the maximum which may be paid; buyers and sellers may contract at any price below the figures named

Commission

(a) Consumers of scrap iron and steel employing an agent to purchase scrap for them may, at their discretion, pay as compensation for such service a sum not exceeding 3½ per cent of the agreed price at which such material is to be delivered, in cases where the agent guarantees the quality and delivery of an agreed tonnage of the material. This compensation shall be shown as a separate charge in billing; the material may not be invoiced at any price in excess of the maximums announced.

(b) Under no circumstances may a dealer or broker split or divide this extra sum which may be allowed him by a mill with any other dealer, broker or producer, and the highest price that anyone under any circumstances may pay is the maximum price as stated in the above schedule.

Note.—No charge for shearing or otherwise preparing scrap may be added to any of the differentials announced.

War Tax on Freight

Sellers of scrap iron and steel must deduct the freight, plus the war tax, in determining the maximum price f.o.b. shipping point.

All the above prices and differentials are per gross ton of 2240 lbs., and in all cases include all freight and charges delivered f.o.b at the consuming mill. For further information communicate with W. Vernon Phillips, Chairman, Subcommittee on Scrap Iron and Steel, American Iron and Steel Institute, Pennsylvania Building, Philadelphia.

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Blooms, Billets, Slabs and Sheet Bars

(for rerolling)

(Base Prices approved by President Wilson, October 11, 1917)

Base prices, per gross ton, f.o.b. Pittsburgh, Pa., or Youngstown, Ohio, see page 8:

Blooms and billets 4 in. x 4 in. and larger	$47.50
Billets smaller than 4 in. x 4 in	51.00
Slabs	50.00
Sheet bars	51.00

Subject to the following list of extras (to be added to the base price per gross ton of rerolling billets, slabs and sheet bars) recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917:

Extras for Carbon

Up to and including 0.25 carbon	Base
0.26 to 0.60 carbon	$1.00 per gross ton
Over 0.60 carbon	2.00 per gross ton

Where range of carbons is specified, extra is to be based upon the mean of such carbons.

Extras for Size and Cutting

For cutting small billets	$.50 per gross ton
Slabs 16 sq. in. in area and larger	Base

On sheet bars and billets under 3⅞ in. for random lengths down to 15 ft., no extra is to be charged, but regular charge of 50c. per ton is to be made for such bars and billets cut to exact lengths.

Prices and extras apply only to material of standard specifications; customary extras for special phosphorus, manganese, silicon, sulphur, etc., to apply.

A slab is a rectangular section, the width of which is at least twice its thickness, and the cross-sectional area of which is not less than sixteen square inches.

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Shell Bars

(Base Price approved by President Wilson, Oct. 11, 1917)

Base price of steel shell bars, f.o.b. Pittsburgh, Pa., see page 8, per hundred pounds:

3 in. to 5 in.	$3.25
Over 5 in. to 8 in.	3.50
Over 8 in. to 10 in.	3.75
Over 10 in.	4.00

Diameter of round and diagonal of gothic section or round cornered square are the governing dimensions.

Material to be furnished in multiples of customers' unit, down to and including the single unit.

Specifications to be practicable and satisfactory to the steel manufacturers so long as the specifications secure material suitable for the purpose intended.

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Forging Steel (Billets, Blooms and Slabs)

Base price recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 12, 1917:

Base price per gross ton, f.o.b. Pittsburgh.....$60

Subject to the following extras in dollars per gross ton to be added to the base price per gross ton:

Large size forging bloom extras	12,000 lb. and under, each	Over 12,000 lb each
Up to but not including 10 x 10 in.....	Base	$7
10 x 10 in. up to but not including 16 x 16 in..	$2	9
16 x 16 in. up to but not including 20 x 20 in..	4	11
20 x 20 in. up to and including 24 x 24 in.....	6	13

For slabs, use the above extras for equivalent sectional area; and for slabs of greater equivalent area than 24 x 24 in., use the above extras for 24 x 24 in. blooms.

Usual carbon differentials and other extras as provided in the billet schedule to be added in addition to the above extras for forging quality, as follows:

	Extra for carbon
Up to and including 0.25 per cent carbon...	Base
0.26 to 0.60 per cent carbon.....	$1 per gross ton
Over 0.60 per cent carbon.....	2 per gross ton

The above extras apply to all material sold for forging purposes. They also apply to either basic open-hearth or Bessemer steel.

For forging into car axles only, blooms under 10 x 10 in. will carry an extra of $5 per ton over base price of rerolling billets (i. e., $47.50 per gross ton), to which will be added usual extras for carbon, as above.

Above prices apply to standard specifications only. Special analyses subject to negotiation.

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Forging Ingots

(Basic or acid open-hearth steel)

Base price and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917, and May 21, 1918:

Base, up to and including 36-in. diameter, with carbon not over 0.25, cast in chilled molds, f.o.b. makers' works, per gross ton.....$73.00

Subject to the following extras in dollars per gross ton to be added to the base price per gross ton:

For Size

Over 36-in. diameter to and including 50-in. diameter, add to base price	$4.00
Over 50-in. diameter to and including 60-in. diameter, add to base price	8.00
Under 20 inches diameter, add to base price	5.00
For chilled mold cast ingots over 10 ft. long add to base price	5.00

For Carbon

Over 0.25 to and including 0.60 carbon, add to base price	$1.00
Over 0.60 carbon, add to base price	2.00

For sand-cast ingots, add to base price..... $10.00

Dimensions of hexagonal or octagonal ingots to be measured over flats.

These prices apply to ingots for usual commercial forgings. Ingots for forgings of special analysis, tests or specifications, and nickel or other alloys, are subject to special negotiation.

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Steel Bars and Small Shapes

Does not include shell steel.

(Base price approved by President Wilson, Sept. 24, 1917.)

Base price of steel bars and small shapes (under 3 in.) f.o.b. Pittsburgh, Pa., see pages 7 and 14, per lb.....2.90c.

Subject to the following list of extras (in cents per lb. to be added to the base price per lb.) recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov 1, 1917, May 21, 1918, and July 30, 1918:

Rounds and Squares

¾ to 3 1/16 in.	Base
5/8 to 11/16 in.	.05c. extra
½ to 9/16 in.	.10c. extra
7/16 in.	.20c. extra
3/8 in.	.25c. extra
11/32 in.	.30c. extra
5/16 in.	.35c. extra
9/32 in.	.40c. extra
¼ in.	.50c. extra
15/64 in.	.75c. extra
7/32 in.	1.00c. extra
3/16 in.	1.25c. extra
3 ⅛ to 3 9/16 in.	.075c. extra
3 5/8 to 4 1/16 in.	.125c. extra
4 ⅛ to 4 9/16 in.	.15c. extra
4 5/8 to 5 1/16 in.	.20c. extra
5 ⅛ to 5 9/16 in.	.25c. extra
5 5/8 to 6 1/16 in.	.375c. extra
6 ⅛ to 6 9/16 in.	.50c. extra
6 5/8 to 7¼ in.	.625c. extra

For intermediate sizes, the next higher extra to be charged in all cases.

Flats

1 to 6 in. x 5/8 to 1 in.	Base
1 to 6 in. x ¼ to 5/16 in.	.10c. extra
11/16 to 15/16 in. x 5/8 to ¾ in.	.20c. extra
11/16 to 15/16 in. x ¼ to 5/16 in.	.25c. extra
9/16 to 5/8 in. x 3/8 to ½ in.	.25c. extra
9/16 to 5/8 in. x ¼ to 5/16 in.	.35c. extra
½ in. x 3/8 to 7/16 in.	.50c. extra
½ in. x ¼ to 5/16 in.	.60c. extra
7/16 in. x 3/8 in.	.70c. extra
7/16 in. x ¼ to 5/16 in.	.80c. extra
3/8 in. x ¼ to 5/16 in.	1.00c. extra
1⅛ to 6 in. x 1 1/16 to 1 3/16 in.	.05c. extra
1⅛ to 6 in. x 1¼ to 1½ in.	.10c. extra
1¾ to 6 in. x 1⅝ to 2¾ in.	.15c. extra
3⅛ to 6 in. x 3 to 4 in.	.20c. extra

For intermediate sizes, the next higher extra to be charged in all cases.

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Angles

1½ x 1½ in. and wider, but under 3 in. wide x 3/16 in. and heavier	.10c. extra
1½ x 1½ in. and wider, but under 3 in. wide x ⅛ in.	.15c. extra
1 x 1 to 1¼ x 1¼ in. x 3/16 in. and heavier	.15c. extra
1 x 1 to 1¼ x 1¼ in. x ⅛ in.	.20c. extra
⅞ x ⅞ in. x 3/16 in	.20c. extra
⅞ x ⅞ in. x ⅛ in	.25c. extra
¾ x ¾ in. x 3/16 in	.25c. extra
¾ x ¾ in. x ⅛ in	.30c. extra
⅝ x ⅝ in. x ⅛ in	.10c. extra
⅝ x ⅝ in. x 3/32 in	1.30c. extra
½ x ½ in. x ⅛ in	1.60c. extra
½ x ½ in. x less than ⅛ in	1.80c. extra
3 in. on one or both legs by less than ¼ in. thick.	.35c. extra

Unequal leg angles are subject to special prices, which will be furnished on application.

For intermediate sizes, the next higher extra to be charged in all cases.

Channels

1½ in. and wider, but under 3 in. wide x 3/16 in. and heavier	.15c. extra
1½ in. and wider, but under 3 in. wide x ⅛ in.	.25c. extra
1 to 1¼ in. x 3/16 in. and heavier	.25c. extra
1 to 1¼ in. x ⅛ in	.35c. extra
1 to 1¼ in. x 7/64 in	.50c. extra
¾ x ⅞ in. x 3/16 in. and heavier	.30c. extra
¾ and ⅞ in. x ⅛ in	.40c. extra
¾ and ⅞ in. x 7/64 in	.55c. extra
⅝ x ⅛ in. and heavier	1.20c. extra
⅝ x 3/32 in	1.40c. extra
½ x 7/64 in. and heavier	1.80c. extra
½ x 5/64 in	2.00c. extra

For intermediate sizes, the next higher extra to be charged in all cases.

Tees

1½ x 1½ in. and wider, but under 3 in. wide x 3/16 in. and heavier	.20c. extra
1 x 1 to 1¼ x 1¼ x 3/16 in. and heavier	.40c. extra
1 x 1 to 1¼ x 1¼ x ⅛ in	.50c. extra
⅞ x ⅞ x 3/16 in	.50c. extra
⅞ x ⅞ x ⅛ in	.60c. extra
¾ x ¾ x 3/16 in.	.60c. extra
¾ x ¾ x ⅛ in.	.70c. extra
⅝ x ⅝ x ⅛ in.	1.30c. extra
½ x ½ x ⅛ in.	1.80c. extra

Unequal leg tees are subject to special prices, which will be furnished on application.

For intermediate sizes, the next higher extra to be charged in all cases.

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Hexagons

¾ to 3 in.	.15c. extra
⅝ to 11/16 in.	.25c. extra
½ to 9/16 in.	.35c. extra
7/16 in.	.55c. extra
⅜ in.	.65c. extra
5/16 in.	.75c. extra
¼ in.	1.00c. extra

For intermediate sizes, the next higher extra to be charged in all cases.

Half Rounds

1 to 3 in.	.20c. extra
¾ to 15/16 in.	.35c. extra
⅝ to 11/16 in.	.05c. extra
½ to 9/16 in.	.70c. extra
⅜ to 7/16 in.	1.10c. extra

For intermediate sizes, the next higher extra to be charged in all cases.

Half Ovals

Gages shown are Birmingham Wire Gage

1 to 4 in. x ¼ in. and thicker	.25c. extra
1 to 4 in. x Nos. 7, 8, 9 and 3/16 in.	.35c. extra
1 to 4 in. x Nos. 10, 11, 12 and ⅛ in.	.50c. extra
¾ to 15/16 in. x 3/16 in. and thicker	.50c. extra
¾ to 15/16 in. x Nos. 10, 11, 12 and ⅛ in.	.65c. extra
¾ to 15/16 in. x Nos. 13, 14 and 15	.80c. extra
⅝ to 11/16 in. x 5/32 in. and thicker	.60c. extra
⅝ to 11/16 in. x Nos. 10, 11, 12 and ⅛ in.	.75c. extra
⅝ to 11/16 in. x Nos. 13, 14 and 15	.90c. extra
½ to 9/16 in. x ⅛ in. and thicker	.80c. extra
½ to 9/16 in. x Nos. 13, 14 and 15	1.05c. extra
⅜ to 7/16 in. x 3/32 in. and thicker	1.35c. extra
⅜ to 7/16 in. x Nos. 14 and 15	1.60c. extra

For intermediate sizes, the next higher extra to be charged in all cases.

Ovals

¾ to 2½ in. x ⅜ in. and thicker	.20c. extra
¾ to 2½ in. x ¼ in. to 5/16 in.	.30c. extra
¾ to 2½ in. x 5/32 in. to 3/16 in.	.45c. extra
⅝ to 11/16 in. x 5/16 in. and thicker	.35c. extra
⅝ to 11/16 in. x 3/16 in. to ¼ in.	.50c. extra
⅝ to 11/16 in. x ⅛ in. to 5/32 in.	.65c. extra
½ to 9/16 in. x ¼ in. and thicker	.55c. extra
½ to 9/16 in. x ⅛ in. to 3/16 in.	.70c. extra
½ to 9/16 in. x 3/32 in.	.95c. extra
⅜ to 7/16 in. x 3/16 in. and thicker	.95c. extra
⅜ to 7/16 in. x ⅛ in. to 5/32 in.	1.20c. extra
⅜ to 7/16 in. x 3/32 in.	1.45c. extra

For intermediate sizes, the next higher extra to be charged in all cases.

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Bands

Bands are now shown on same list as hoops and strips. See page 56.

Quantity Differentials

All specifications for less than 2000 lb. of a size will be subject to the following extras, the total weight of a size ordered to determine the extra, regardless of length and regardless of exact quantity actually shipped.

Quantities less than 2000 lb. but not less than 1000 lb.	.15c. extra
Quantities less than 1000 lb.	.35c. extra

Straightening

Machine straightening	.10c. extra

Machine Cutting Rounds and Squares 1½ in. and Larger to Specified Lengths

Machine cutting to lengths over 48 in.	.15c. extra
Machine cutting to lengths over 24 in. to 48 in., inclusive.	.25c. extra
Machine cutting to lengths over 12 in. to 24 in., inclusive.	.35c. extra
Machine cutting to lengths of 12 in. and less, extra will be furnished on application, but will not be less than	.45c.

The above extras apply only to 0.50 carbon and under. Extras for machine cutting over 0.50 carbon will be furnished on application.

Extras for machine cutting rounds and squares under 1½ in., flats, etc., will be furnished on application.

Cutting to Specified Lengths

Other than machine cutting

Cutting to lengths of 60 in. and over	No charge
Cutting to lengths over 48 in. to 59 in. inclusive.	.05c. extra
Cutting to lengths over 24 in. to 48 in., inclusive.	.10c. extra
Cutting to lengths over 12 in. to 24 in., inclusive.	.20c. extra
Cutting to lengths of 12 in. and less, extra will be furnished on application, but will not be less than	.30c.

Concrete Reinforcing Bars

*Twisted squares	.125c. extra
*Deformed sections	.075c. extra

*Full bar extras, as herein printed, apply in addition to extra shown opposite.

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Rivet Rods

*Medium steel	Base
*High tensile (subject to Navy specifications)	4.05c. extra

Spring Steel

*Railway spring steel	.25c. extra
Automobile spring steel	.25c. extra
Open-hearth vehicle spring steel	.25c. extra

(Full extras spring steel card Aug. 20, 1914, for size and cutting, etc., apply to last two items, in addition to extras shown opposite.) See page 55.

Hoops

Hoops are now shown on same list as bands and strips. See page 56.

Tire *

*Iron finish, 1½ x ½ in. and larger	Base
Iron finish under 1½ in. x ½ in.	.15c. extra
Planished and machine straightened	.20c. extra

(Extras per tire card of Sept. 1, 1909, for size and quantity apply to last two items, in addition to extras shown opposite.) See page 61.

Specifications and Inspection

Material subject to Navy Department specifications and inspection	.10c. extra
Navy Dept. high tensile steel (except rivet rods)	1.00c. extra

Charges for other than mill inspection, such as "Lloyd's" or "American Bureau of Shipping," for buyer's account.

Extras on special sections subject to determination.

Carbon Extras

If specified up to 0.20 per cent	No extra
If specified 0.21 per cent to 0.50 per cent	.05c. extra
If specified 0.51 per cent and over	.15c. extra

Forging Bars

Extras on forging bars recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917.

Finished bars ordered for forging purposes .25c. extra.

Full bar extras, as shown above, apply in addition to this extra.

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*Full bar extras, as herein printed, apply in addition to extra shown opposite.

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Rail Steel Bars

(Rolled from Old Steel Rails)

Base price and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917.

Base price of rail steel bars, f.o.b. maker's mill, per 100 lb. $3.00

Subject to the following extras, in cents per 100 lb., to be added to the base price per 100 lb.:

For Size

Rounds, squares and flats, including deformed bars and twisted squares, take regular steel bar extras.

1 in. x 1 in. x ⅛ in. and larger angles, channel-flats, and cultivator beams ..... Base

U-bars, regular channels, harrow I bars, diamonds, triangulars, 1½ in. x 1½ in. x 3/16 in. and larger, tees, ¾ in. x ¾ in. x ⅛ in. and heavier, 1 in. x ⅝ in. x ⅛ in. and heavier angles, per 100 lb..... $0.10

1 in. x 1 in. x 3/16 in. to 1¼ in. x 1¼ in. x 3/16 in. tees, per 100 lb. ..... .20

For Cutting to Length

No extra charge for lengths 24 in. and over; under 24 in. will be subject to special negotiation.

These prices do not apply to special sections which will be subject to special negotiation.

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Spring Steel Extras

Card of Aug. 20, 1914, referred to on page 53.

Extras for Size

Flat

1¼ to 6 in. x No. 4 to ⅛ in., inclusive	Base
1 and 1⅛ in. x No. 1 to No. 4, inclusive	.10c.
1 to 3 in. x No. 5 to No. 7, inclusive	.25c.
¾ and 15/16 in. x No. 1 to No. 7, inclusive	.25c.
⅝ to 11/16 in. x No. 1 to No. 7, inclusive	.50c.
¾ to 3 in. x No. 8 to No. 10, inclusive	.50c.
¾ to 3 in. x No. 11 to No. 16, inclusive	.75c.
¾ to 3 in. x No. 17 to No. 20, inclusive	1.10c.
⅝ to ⅝ in. x No. 10 to No. 16, inclusive	2.00c.
⅜ to ⅝ in. x No. 17 to No. 20, inclusive	2.50c.
⅜ to ⅝ in. x No. 21 to No. 24, inclusive	3.00c.

Round and Square

⅝ to 1½ inches, inclusive	Base
½ to 9/16 inch, inclusive	.10c.
⅜ to 7/16 inch, inclusive	.25c.
5/16 inch	.50c.
¼ and 9/32 in. inclusive	.75c.

On intermediate sizes, the extra for next lighter size will apply.

Quantity Differentials

All specifications for less than 2000 lb. of a size will be subject to the following extras, the total weight of a size ordered to determine the extra regardless of length and regardless of exact quantity actually shipped.

Quantities less than 2000 lb., but not less than 1000 lb.	.15c. extra
Quantities less than 1000 lb.	.35c. extra

Extras for Cutting

No charge for shearing to specified lengths 5 ft. and over.

Shearing to specified lengths over 2 ft. to 5 ft., .10c. per lb.

Shearing to specified lengths 2 ft. and under, subject to special arrangement.

Note.—Extras are given in cents per pound.

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Steel Bands, Hoops and Strips

Base price and extras for steel bands, hoops and strips, recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, May 21, 1918, and Sept. 12, 1918:

Steel bands .....$3.50 per 100-lb., f.o.b. Pittsburgh
Steel hoops ..... 3.50 per 100-lb., f.o.b. Pittsburgh
Hot rolled strip steel..... 3.50 per 100-lb., f.o.b. Pittsburgh

Subject to following list of extras and differentials:

Extras for Size

Gage	Thickness Decimal	Extra for size
Width—⅜ in.		
3/16 in.	.1875	$0.75
7	.180	.75
8	.165	.75
9	.148	.75
10	.134	1.00
¼	.125	1.00
11	.120	1.00
12	.109	1.00
13	.095	1.10
14	.083	1.10
15	.072	1.20
16	.065	1.30
17	.058	1.45
18	.049	1.60
Width—7/16 in.		
3/16 in.	.1875	.70
7	.180	.70
8	.165	.70
9	.148	.70
10	.134	.85
⅛	.125	.85
11	.120	.85
12	.109	.85
13	.095	.90
14	.083	.90
15	.072	.90
16	.065	1.00
17	.058	1.10
18	.049	1.35
19	.042	1.50
Width—½ in.		
3/16 in.	.1875	.45
7	.180	.45
8	.165	.45
9	.148	.45
10	.134	.55
⅛	.125	.55
11	.120	.55
12	.109	.55
13	.095	.65
14	.083	.65
15	.072	.65
16	.065	.75
17	.058	.75
18	.049	.80
19	.042	.85
20	.035	.95
21	.032	1.15
22	.028	1.35

Gage	Thickness Decimal	Extra for size
Width—9/16 in.		
3/16 in.	.1875	$0.40
7	.180	.40
8	.165	.40
9	.148	.40
10	.134	.45
⅛	.125	.45
11	.120	.45
12	.109	.45
13	.095	.55
14	.083	.55
15	.072	.55
16	.065	.65
17	.058	.65
18	.049	.70
19	.042	.75
20	.035	.85
21	.032	1.00
22	.028	1.15
23	.025	1.35
Width—⅝ in.		
3/16 in.	.1875	.40
7	.180	.40
8	.165	.40
9	.148	.40
10	.134	.45
⅛	.125	.45
11	.120	.45
12	.109	.45
13	.095	.50
14	.083	.50
15	.072	.50
16	.065	.60
17	.058	.60
18	.049	.65
19	.042	.70
20	.035	.80
21	.032	.95
22	.028	1.10
23	.025	1.30
Width—11/16 in.		
3/16 in.	.1875	.30
7	.180	.30
8	.165	.30
9	.148	.30
10	.134	.40
⅛	.125	.40
11	.120	.40
12	.109	.40
13	.095	.45

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Gage	Thickness Decimal	Extra for size
Width—11/16 in.		
14 in.	.083	$0.45
15	.072	.45
16	.065	.55
17	.058	.55
18	.049	.60
19	.042	.65
20	.035	.75
21	.032	.90
22	.028	1.05
23	.025	1.25
Width—¾ in.		
3/16 in.	.1875	.30
7	.180	.30
8	.165	.30
9	.148	.30
10	.134	.35
⅛	.125	.35
11	.120	.35
12	.109	.35
13	.095	.40
14	.083	.40
15	.072	.40
16	.065	.50
17	.058	.50
18	.049	.55
19	.042	.60
20	.035	.65
21	.032	.75
22	.028	.95
23	.025	1.20
Width—13/16 in.		
3/16 in.	.1875	.20
7	.180	.20
8	.165	.20
9	.148	.20
10	.134	.30
⅛	.125	.30
11	.120	.30
12	.109	.30
13	.095	.40
14	.083	.40
15	.072	.40
16	.065	.50
17	.058	.50
18	.049	.55
19	.042	.60
20	.035	.65
21	.032	.75
22	.028	.95
23	.025	1.20
Width—⅞ in.		
3/16 in.	.1875	.15
7	.180	.15
8	.165	.15
9	.148	.15
10	.134	.25
⅛	.125	.25
11	.120	.25
12	.109	.25
13	.095	.30
14	.083	.30

Gage	Thickness Decimal	Extra for size
Width—⅞ in.		
15 in.	.072	$0.30
16	.065	.35
17	.058	.40
18	.049	.40
19	.042	.45
20	.035	.55
21	.032	.65
22	.028	.85
23	.025	1.10
Width—15/16 in.		
3/16 in.	.1875	.10
7	.180	.10
8	.165	.10
9	.148	.10
10	.134	.15
⅛	.125	.15
11	.120	.15
12	.109	.15
13	.095	.20
14	.083	.20
15	.072	.20
16	.065	.25
17	.058	.25
18	.049	.30
19	.042	.35
20	.035	.45
21	.032	.65
22	.028	.85
23	.025	1.10
Width—1 in.		
3/16 in.	.1875	.05
7	.180	.05
8	.165	.05
9	.148	.05
10	.134	.15
⅛	.125	.15
11	.120	.15
12	.109	.15
13	.095	.20
14	.083	.20
15	.072	.20
16	.065	.25
17	.058	.25
18	.049	.30
19	.042	.35
20	.035	.45
21	.032	.65
22	.028	.85
23	.025	1.10
Width—1 1/16 in. to 1⅛ in.		
3/16 in.	.1875	.05
7	.180	.05
8	.165	.05
9	.148	.05
10	.134	.10
⅛	.125	.10
11	.120	.10
12	.109	.10
13	.095	.15
14	.083	.15

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Gage	Thickness Decimal	Extra for size
Width—1 1/16 in. to 1⅜ in.		
15 in.	.072	$0.15
16	.065	.20
17	.058	.25
18	.049	.25
19	.042	.30
20	.035	.45
21	.032	.65
22	.028	.85
Width—1 7/16 in. to 2 in.		
3/16 in.	.1875	Base
7	.180	Base
8	.165	Base
9	.148	Base
10	.134	.05
⅛	.125	.05
11	.120	.05
12	.109	.05
13	.095	.10
14	.083	.10
15	.072	.10
16	.065	.10
17	.058	.15
18	.049	.20
19	.042	.25
20	.035	.50
21	.032	.70
22	.028	.95
Width—2 1/16 in. to 2½ in.		
3/16 in.	.1875	Base
7	.180	Base
8	.165	Base
9	.148	Base
10	.134	.05
⅛	.125	.05
11	.120	.05
12	.109	.05
13	.095	.10
14	.083	.10
15	.072	.10
16	.065	.15
17	.058	.20
18	.049	.30
19	.042	.40
20	.035	.60
21	.032	.90
Width—2 9/16 in. to 3 in.		
3/16 in.	.1875	Base
7	.180	Base
8	.165	Base
9	.148	Base
10	.134	.05
⅛	.125	.05
11	.120	.05
12	.109	.05
13	.095	.10
14	.083	.10
15	.072	.10
16	.065	.15
17	.058	.20
18	.049	.30
19	.042	.40
20	.035	.60
21	.032	1.00

Gage	Thickness Decimal	Extra for size
Width—3 1/16 in. to 3½ in		
3/16 in.	.1875	Base
7	.180	Base
8	.165	Base
9	.148	Base
10	.134	$0.05
⅛	.125	.05
11	.120	.05
12	.109	.05
13	.095	.10
14	.083	.15
15	.072	.20
16	.065	.30
17	.058	.40
18	.049	.55
19	.042	.75
20	.035	1.00
Width—3 9/16 in. to 4 in.		
3/16 in.	.1875	Base
7	.180	Base
8	.165	Base
9	.148	Base
10	.134	.05
⅛	.125	.05
11	.120	.05
12	.109	.05
13	.095	.10
14	.083	.15
15	.072	.20
16	.065	.30
17	.058	.45
18	.049	.70
19	.042	.90
20	.035	1.15
Width—4 1/16 in. to 5 in.		
3/16 in.	.1875	Base
7	.180	Base
8	.165	Base
9	.148	Base
10	.134	.10
⅛	.125	.10
11	.120	.10
12	.109	.10
13	.095	.15
14	.083	.20
15	.072	.30
16	.065	.50
17	.058	.75
18	.049	1.00
19	.042	1.20
20	.035	1.40
Width—5⅛ in. to 6 in.		
3/16 in.	.1875	Base
7	.180	Base
8	.165	Base
9	.148	Base
10	.134	.10
⅛	.125	.10
11	.120	.10
12	.109	.10
13	.095	.20
14	.083	.30
15	.072	.40

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Gage	Thickness Decimal	Extra for size
Width—5⅛ in. to 6 in.		
16 in.	.065	$0.70
17	.058	.90
18	.049	1.00
19	.042	1.20
Width—6 1/16 in. to 8 in.		
3/16 in.	.1875	.10
7	.180	.10
8	.165	.10
9	.148	.10
10	.134	.20
⅛	.125	.20
11	.120	.20
12	.109	.20
13	.095	.30
14	.083	.45
15	.072	.60
16	.065	.80
17	.058	1.00
18	.049	1.20
Width—8 1/16 in. to 10 in.		
3/16 in.	.1875	.10
7	.180	.10
8	.165	.10
9	.148	.10
10	.134	.20
⅛	.125	.20
11	.120	.20
12	.109	.20
13	.095	.40
14	.083	.55
15	.072	.80
16	.065	1.05
17	.058	1.25
18	.049	1.45

Gage	Thickness Decimal	Extra for size
Width—10 1/16 in. to 12½ in.		
3/16 in.	.1875	$0.20
7	.180	.20
8	.165	.20
9	.148	.20
10	.134	.30
⅛	.125	.30
11	.120	.30
12	.109	.30
13	.095	.50
14	.083	.75
15	.072	.95
16	.065	1.25
Width—12 9/16 in. to 15 in.		
3/16 in.	.1875	.30
7	.180	.30
8	.165	.30
9	.148	.30
10	.134	.40
⅛	.125	.40
11	.120	.40
12	.109	.40
13	.095	.60
14	.083	.90
Width—15 1/16 in. and wider		
3/16 in	.1875	.40
7	.180	.40
8	.165	.40
9	.148	.40
10	.134	.60
⅛	.125	.60
11	.120	.60
12	.109	.60
13	.095	.75
14	.083	1.00

Birmingham wire gage applies on this list.

Additional Extras

Per 100 lbs. to be added to the base price.

For deep stamping or drawing quality steel.....$0.25 extra
For extra deep stamping or drawing quality steel ..... .50 extra
Cutting to length 60 in. and over on special stamping quality steel, *without end pieces*.....10 per cent extra
Annealing .....$0.30 extra

Cutting to Specified Lengths

Cutting to lengths of 60 in. and over.....No charge
Cutting to lengths over 48 in. to 59 in., inclusive. $0.05 extra
Cutting to lengths over 24 in. to 48 in., inclusive. .10 extra
Cutting to lengths over 12 in. to 24 in., inclusive. .20 extra
Extra for cutting to specified lengths 12 in. and less will be furnished on application, but will not be less than ..... .30 extra
For rounding one end of cut hoop and bands.... .05 extra
For rounding both ends of cut hoop and bands.. .10 extra

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For intermediate gages the extra for the next lighter gage will be charged.

Rolling of lighter gages than indicated on this list and the extras to apply are subject to special arrangements.

Extras for flaring and galvanizing will be quoted on application.

Extras for packing in barrels, casks and boxes will be quoted on application.

Exemptions

Extras for cutting and rounding one end of hoops will be waived on all widths when ordered in carload lots for cooperage purposes.

Quantity Differentials

All specifications for less than 2000 lb. of a size will be subject to the following extras, the total weight of a size ordered to determine the extra regardless of length and regardless of exact quantity actually shipped.

Quantities less than 2000 lb., but not less than 1000 lb. .....$0.15 extra
Quantities less than 1000 lb..... .35 extra

Slitting and Pickling Extras

Gage		Slitting	Pickling
3/16 in. -7 -8 and	9	$0.25	$0.25
-10-11 and	12	.25	.25
	13	.25	.30
	14	.25	.35
	15	.40	.40
	16	.40	.45
	17	.40	.50
	18	.55	.55
	19	.55	.60
	20	.55	.65

Includes liming or oiling.

Carbon Extras

For sizes 6 in. and narrower x 12-gage or heavier:
If specified up to 0.20 per cent.....No extra
If specified 0.21 per cent to 0.50 per cent.....$0.05 extra
If specified 0.51 per cent and over..... .15 extra

For other sizes and gages, or special quality, carbon extras on application.

Specifications and inspection:
Material subject to Navy Department specifications and inspection .....$0.10 extra
Navy Department high-tensile steel..... 1.00 extra

Charges for other than mill inspection, such as "Lloyd's" or "American Bureau of Shipping," for buyer's account.

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Steel Tire Extras

Card of Sept. 1, 1909, referred to on page 53

1 in. x ¼ in. and heavier	Base
1½ in. x 3/16 in. and 7/32 in.	.10c.
1 in. to 1 7/16 x 3/16 and 7/32 in.	.15c.
1 in. to 1 7/16 x ⅛ in.	.25c.
⅞ in. x ¼ in.	.15c.
⅞ in. x 3/16 and 7/32 in.	.25c.
⅞ in. x ⅛ and 5/32 in.	.30c.
¾ in. x ¼ in.	.15c.
¾ in. x 3/16 and 7/32 in.	.40c.
¾ in. x ⅛ and 5/32 in.	.50c.
⅝ in. x 3/16 in.	.50c.
⅝ in. x ⅛ and 5/32 in.	.55c.

Extras are given in cents per lb.

For intermediate sizes, the next higher extra to be charged in all cases.

Sizes not shown are subject to special arrangement.

Quantity Differentials

All specifications for less than 2000 lbs. of a size will be subject to the following extras, the total weight of a size ordered to determine the extra regardless of lengths and regardless of exact quantity actually shipped.

Quantities less than 2000 lbs. but not less than 1000 lbs.	.15c. per lb.
Quantities less than 1000 lbs.	.35c. per lb.

No extra charge for cutting to tire lengths.

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Iron Bars

Base price recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917, May 21, 1918, and Oct. 17, 1918:

	Per 100 lb
Common Merchant Iron	$3.50 base
Refined Iron made from all selected scrap	.75 extra
Refined Iron made from puddle iron and selected scrap	1.50 extra

Above grades are subject to the extras for size, quantity, etc., shown below. Established custom as regards delivery point to govern.

Rounds and squares, ½ in. and smaller, and all rounds and squares over 1⅞ in., may be graded as Refined Iron.

Light bands, as per National List, may be graded as Refined Iron.

Sizes above base sizes in flats, may be graded as Refined Iron.

Flats from 1 in. to 4 in. wide, by ¼ in. to 1 in. thick inclusive, are furnished in Common Merchant Iron; smaller flats may be graded as Refined Iron.

Hexagons, ovals, half ovals, half rounds, and fender, round edge and round edge tire irons may be graded as Refined Iron.

Common Merchant Iron is the term applied to material made entirely from common scrap.

Refined Iron is the term applied to material made entirely from selected wrought scrap, or made from puddle bar and selected wrought scrap.

Above prices do not apply to specification or test irons, which are subject to negotiation.

Rounds and Squares

	Per 100 lb.
1 to 1¼	Base
2 to 2¼	$0.10 extra
3 to 3½	.25 extra
3⅝ to 4	.40 extra
4⅛ to 4½	.50 extra
4⅝ to 5	.65 extra
5⅛ to 6	.90 extra
6⅛ to 6½	1.10 extra
6⅝ to 7¼	1.25 extra
¾ to ⅞	.05 extra
⅝ to 11/16	.10 extra
½ to 9/16	.15 extra
7/16 to 15/32	.20 extra
⅜ to 13/32	.25 extra
5/16 to 11/32	.35 extra
¼ to 9/32	.45 extra
7/32	.70 extra
5/16	1.25 extra

Heavy Band Iron

	Per 100 lb.
8¼ to 10 x ¼ to 5/16	$0.35 extra
7 to 8 x ¼ to 5/16	.35 extra
6¼ to 6¾ x ¼ to 5/16	.25 extra
4¼ to 6 x ¼ to 5/16	.15 extra
1½ to 4 x ¼ to 5/16	.10 extra
1 to 1⅝ x ¼ to 5/16	.15 extra
¾ to 15/16 x ¼ to 5/16	.25 extra
⅝ to 11/16 x ¼ to 5/16	.40 extra
½ to 9/16 x ¼ to 5/16	.50 extra
⅜ to 7/16 x ¼ to 5/16	.75 extra

Heavy bands, 7/16 in. thick, 5c. per 100 lb. higher than ¼ to 5/16 thick. Bevel edge shaft iron, 5c. higher than same size of heavy bands.

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Flats

	Per 100 lb
1½ to 4 x ⅜ to 1	Base
4¼ to 6 x ⅜ to 1	$0.05 extra
4¼ to 6 x 1⅛ to 1½	.20 extra
6¼ to 8 x ⅜ to 1	.30 extra
6¼ to 8 x 1⅛ to 1½	.30 extra
8¼ to 10 x ⅜ to 1	.40 extra
1⅜ to 4 x 1⅛ to 1½	.15 extra
2 to 4 x 1⅝ to 2	.25 extra
4¼ to 6 x 1⅝ to 2	.30 extra
6¼ to 8 x 1⅝ to 2	.40 extra
8¼ to 10 x 1⅛ to 1½	.45 extra
8¼ to 10 x 1⅝ to 2	.50 extra
2 to 4 x 2⅛ to 3	.30 extra
4¼ to 6 x 2⅛ to 3	.40 extra
6¼ to 8 x 2⅛ to 3	.50 extra
1⅜ to 1⅝ x ⅜ to 1	.05 extra
1 to 1⅛ x ⅜ to ⅞	.10 extra
¾ to 15/16 x ⅜ to ¾	.20 extra
⅝ to 1⅛ x ⅜ to ⅝	.25 extra
½ to ⅞ x ⅜ to ½	.45 extra

Light Bands

	Per 100 lb.
7 to 8 x No. 9 to ⅛	$0.45 extra
7 to 8 x Nos. 10, 11, 12	.50 extra
6¼ to 6¾ x No. 9 to ⅛	.35 extra
6¼ to 6¾ x Nos. 10, 11, 12	.40 extra
4¼ to 6 x No. 9 to ⅛	.25 extra
4¼ to 6 x Nos. 10, 11, 12	.30 extra
1¼ to 4 x No. 9 to ⅛	.20 extra
1¼ to 4 x Nos. 10, 11, 12	.25 extra
1 to 1⅜ x No. 9 to ⅛	.25 extra
1 to 1⅜ x Nos. 10, 11, 12	.30 extra
15/16 to ⅞ x No. 9 to ⅛	.30 extra
13/16 to ⅞ x Nos. 10, 11, 12	.35 extra
11/16 to ¾ x No. 9 to ⅛	.40 extra
11/16 to ¾ x Nos. 10, 11, 12	.45 extra
⅝ to ⅝ x No. 9 to ⅛	.50 extra
⅝ to ⅝ x Nos. 10, 11, 12	.55 extra
7/16 to ½ x No. 9 to ⅛	.65 extra
7/16 to ½ x Nos. 10, 11, 12	.70 extra
⅜ x No. 9 to ⅛	.75 extra
⅜ x Nos. 10, 11, 12	.80 extra

Half Oval and Half Round

	Per 100 lb.
2¼ to 3	$0.30 extra
⅞ to 2	.25 extra
¾ to 13/16	.35 extra
⅝ to 11/16	.45 extra
½ to 9/16	.60 extra
⅜ to 7/16	1.25 extra
5/16	1.75 extra
¼	2.25 extra

Half oval, less than ¼ their width in thickness, extra price.

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Horse Shoe Iron

	Per 100 lb.
All sizes	$1.00 extra

Cutting to specified length, 2 ft. and over, 10c. extra.

Beveled Edge Box Iron

Same as light bands of same sizes

Oval Iron

	Per 100 lb.
⅜ to 1½	$0.20 extra
¾ to 1 13/16	.25 extra
⅝ to 1 11/16	.30 extra
½ to 9/16	.40 extra
⅜ to 7/16	.55 extra
½ to 9/16 x ⅜	.50 extra
⅝ to 1 11/16 x ⅜	.60 extra

Quantity Differentials

All specifications for less than 2000 lb. of a size will be subject to the following extras, the total weight of a size ordered to determine the extra, regardless of length and regardless of exact quantity actually shipped.

	Per 100 lb.
Quantities less than 2000 lb. but not less than 1000 lb	$0.15 extra
Quantities less than 1000 lb	.35 extra

Extras for Cutting to Specified Lengths

	Per 100 lb.
Hot sawing or shearing 24 in. and longer	$0.10 extra
Hot sawing or shearing 12 to 24 in	.20 extra
Hot shearing, under 12 in	.30 extra
Machine cutting, specified lengths, above 24 in	.20 extra
Machine cutting, specified lengths, 12 to 24 in	.40 extra

Machine cutting, to specified lengths, less than 12 in., according to contract, but not less than 60c. on each size. No charge for shear cutting to multiple lengths of 12 in. and under.

Machine Straightening and Centering

	Per 100 lb.
Machine straightening and centering	$0.40 extra
Machine straightening alone, for ordinary sizes	.20 extra

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Steel Structural Shapes (3″ and over)

(Base price approved by President Wilson, Sept. 24, 1917)

Base price standard structural shapes, f.o.b. Pittsburgh, Pa., see pages 7 and 14, per pound.....3.00c.

Subject to the following list of extras (in cents per pound to be added to the base price per pound) recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917, and July 30, 1918:

Standard structural beams and channels, 3 in. to 15 in., inclusive	Base
Angles—structural sizes—3 in. to 6 in. on one or both legs, ¼ in. thick and over	Base
Zees—structural sizes	Base
Standard structural beams—over 15 in	.10c. extra
Angles—structural sizes—over 6 in. on one or both legs	.10c. extra
Tees—structural sizes (excepting elevator, hand rail, car truck and conductor rail tees)	.05c. extra
Bulb beams	.30c. extra
Bulb angles (not including special bulb angles for torpedo boat destroyers)	.30c. extra
Cutting to lengths under 3 ft. to 2 ft., inclusive	.25c. extra
Cutting to lengths under 2 ft. to 1 ft., inclusive	.50c. extra
Cutting to lengths under 1 ft.	1.55c. extra

No charge for cutting to lengths 3 ft. and over; all material is subject to the following tolerances:

	Over	Under
Beams and channels	⅜ in.	⅜ in.
Angles, tees, zees and other shapes—structural sizes	¾ in.	0 in.

Cold sawing to exact length	.25c. extra
Material subject to Navy Department specifications and inspection	.10c. extra
Navy Department high tensile steel	1.00c. extra

Charges for other than mill inspection, such as "Lloyd's" or "American Bureau of Shipping," for buyer's account.

Extras on special sections subject to determination.

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Steel Plates

(Base Price approved by President Wilson, Sept. 24, 1917)

Base price of steel plates, f.o.b. Pittsburgh, Pa., see pages 7 and 14, per pound..... 3.25c.

Subject to the following list of extras (in cents per pound to be added to the base price per pound) recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, November 13, 1917, May 21, 1918, May 25, 1918, and July 30, 1918:

CONDITIONS

Rectangular plates, tank steel, ¼ in. thick and over on thinnest edge 100 in. wide and under, down to but not including 6 in. wide, are BASE.

Plates up to 72 in. wide, inclusive, ordered 10.2 pounds per square foot, are considered ¼ in. plates. Plates over 72 in. wide must be ordered ¼ in. thick on edge, or not less than 11 pounds per square foot to take base price. Plates over 72 in. wide ordered less than 11 pounds per square foot down to the weight of 3/16 in. take the price of 3/16 in. plates, and all extras for width of 3/16 in. plates, as well as gage.

Allowable overweight, whether plates are ordered to gage or weight, to be governed by the Standard Specifications of the Association of American Steel Manufacturers.

Widths

(Applies to plates ¼ in. thick and heavier)

Widths over 100 in. to and including 110 in.....	.05c. extra
Widths over 110 in. to and including 115 in.....	.10c. extra
Widths over 115 in. to and including 120 in.....	.15c. extra
Widths over 120 in. to and including 125 in.....	.25c. extra
Widths over 125 in. to and including 130 in.....	.50c. extra
Widths over 130 in. to and including 135 in.....	1.00c. extra
Widths over 135 in. to and including 140 in.....	1.25c. extra
Widths over 140 in.....	1.50c. extra

Gages

Gages lighter than ¼ in. to and including 3/16 in. on thin edge up to 72 in. wide, inclusive...	.10c. extra
Gages lighter than ¼ in. to and including 3/16 in. on thin edge over 72 in. wide to 84 in. wide, inclusive	.20c. extra
Gages lighter than ¼ in. to and including 3/16 in. on thin edge over 84 in. wide to 96 in. wide, inclusive	.30c. extra
Gages lighter than ¼ in. to and including 3/16 in. on thin edge over 96 in. wide to 100 in. wide, inclusive	.40c. extra
Gages lighter than ¼ in. to and including 3/16 in. on thin edge over 100 in. wide to 103 in. wide, inclusive	.45c. extra

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Grades

Pressing steel	.10c. extra
Flange steel (boiler grade)	.15c. extra
Ordinary firebox steel	.20c. extra
Stillbottom steel	.30c. extra
Locomotive firebox steel	.50c. extra
"Marine" steel	1.50c. extra
Material subject to Navy Department specifications and inspection	.10c. extra
High tensile hull steel to U. S. Navy Dept. or equivalent specifications	1.00c. extra
Navy Department boiler steel—Classes "A" and "B"	1.50c. extra

Hull plates to hull specifications required to stand cold flanging take extras for flange steel.

Cutting

Rectangular Plates

Lengths 3 ft. and over	No extra
Lengths under 3 ft. to 2 ft., inclusive	.25c. extra
Lengths under 2 ft. to 1 ft., inclusive	.50c. extra
Lengths under 1 ft.	1.55c. extra

Regular Sketches

(With not more than four straight cuts—including straight taper plates)

Lengths 3 ft. and over	.10c. extra

Irregular Sketches

(With more than four straight cuts)

Lengths 3 ft. and over	.20c. extra

Sketches sheared to a radius take circle extras.

Sketch plates (other than those sheared to a radius) will be invoiced at actual weight of the sketch, at the base price, plus standard card extras (including sketch extras), with an additional charge for waste, if any, to be determined by deducting the actual weight of each sketch from the estimated table weight of the smallest rectangular plate from which said sketch can be secured, the difference to be invoiced at the rectangular plate price, less an allowance for the value as scrap, at the price fixed by the Government for No. 1 heavy melting scrap.

Note.—The "rectangular plate price" at which the difference is to be invoiced after allowing for scrap is held to be the net price f.o.b. mill which the maker would have realized had the rectangle been shipped to same destination as the sketch cut from it. Such price is properly figured by adding to the Pittsburgh base price the full extras for size, gage, quality and cutting to length, and the carload freight rate from Pittsburgh to destination; and then deducting the carload freight rate from maker's mill to destination.

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CIRCLES

Diameters 3 ft. and over.....25 per cent of base price

Half circles take circle extras.

SPECIAL

Sketches or circles over 100 in. in width or diameter take width extras in addition to sketch or circle extras.

Sketches cannot be sheared with re-entrant angles.

All sketches, regular, irregular, circular, semi-circular or special, with greatest dimension under 3 ft., take length extras shown under rectangular plates, in addition to sketch or circle extra.

For cold sawing such items that cannot be sheared (such as stem bars), extra of .25c. will apply.

Floor Plates

Ribbed, diamond, checkered..... 1.75c. extra

(Floor plates are not furnished to sketch.)

Inspection

Charges for other than mill inspection, such as "Lloyd's" or "American Bureau of Shipping," for buyer's account.

Freights

All-rail freights in effect at time of shipment will be used in determining the delivered price.

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Light Rails (45 lb. per yard and under).

Base price and extras for light rails recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 20, 1917.

Base, per 100 lb., f.o.b. maker's mill, including 10 per cent short lengths, down to and including 24 ft.....$3.00

Subject to following list of extras and differentials for size, quantity, etc.:

Extras for Size

	Per 100 lb. Extra
25 lb. to 45 lb. per yd., inclusive, full carload lots....	Base
16 lb. and 20 lb. per yd., full carload lots.....	$0.045
12 lb. and 14 lb. per yd., full carload lots.....	.090
8 lb. and 10 lb. per yd., full carload lots.....	.135

Extras for Quantity

For less than carload lots, down to and including 5 gross tons	$0.045
For less than carload lots, under 5 gross tons.....	.09

Extras for Length

Special lengths down to, but not including, 12 ft.....	$0.09
Special lengths 12 ft. and under.....	.225
For all 30-ft. lengths.....	.045

Extras for Bond Drilling and Notching

Bond drilling, one hole in each end of web.....	$0.045
Bond drilling, two holes in each end of web.....	.090
Bond drilling, one hole in each end of flange.....	.090
Bond drilling, two holes in each end of flange.....	.18
Notching .....\.....	.023

Splice Joints Complete for Light Rails

Prices of splice joints for light rails recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917.

Section	Price Per Complete Joint	Section	Price Per Complete Joint
8 lb.....	$.16	30 lb.....	$.45
10 lb.....	.20	35 lb.....	.52
12 lb.....	.25	30 lb. angle bars..	.60
14 lb.....	.25	35 lb. angle bars..	.66
16 lb.....	.30	40 lb. angle bars..	.85
20 lb.....	.31	45 lb. angle bars..	1.00
25 lb.....	.38		

Above prices are f.o.b. maker's mill.

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Rolled Steel Angle Splice Bars

For standard sections steel "Tee" rails, 50 lb. per yd. and heavier.

Base price and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917.

Base price for rolled steel angle splice bars, 25 gross tons or more, standard sections, which do not involve new roll equipment, per 100 lb., f.o.b. maker's mill.. $3.25
Less than 25 gross tons, subject to special arrangement.

Subject to the following extras, in cents per 100 lb., to be added to the base price per 100 lb.

Extras for quality, per 100 lb.		Extras per 100 lb. for workmanship in addition to extras for quality		
		Hot Anneal-ing	Work-ing	Oil Quench-ing
Low carbon, open-hearth or Bessemer	Base	$.10	$.10	$.20
Medium carbon, open-hearth or Bessemer	$.05	.10	.10	.20
High carbon, open-hearth or Bessemer	.10	.10	.10	.20
Extra high carbon, open-hearth	.15	.10	.10	.20

Extras for Special Analysis

	Per 100 lb.
For sulphur specified in Bessemer steel .075 or higher..	$.05
For sulphur specified in open-hearth .06 maximum.....	.05
For sulphur specified in open-hearth .05 maximum.....	.10
For phosphorus specified in open-hearth .03 maximum...	.045

These prices do not apply to patented angle splice bars and joints, which will be subject to special negotiation.

Rolled Tie Plates

Base price recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917.

Base price for all sizes and weights of single shoulder type, for use with standard tee rail sections, per 100 lb., f.o.b. maker's mill:

Steel	$3.25
Iron	3.75

These prices do not apply to other types of rolled tie plates which will be subject to special negotiation.

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Skelp

(Base price approved by President Wilson, Oct. 11, 1917.)

Base price of steel skelp, f.o.b. Pittsburgh, Pa., see page 8, per 100 lb.:

Grooved skelp	$2.90
Universal skelp	3.15
Sheared skelp	3.25

For special skelp for boiler tubes, see below.

Steel Pipe

(Base price approved by President Wilson, Nov. 5, 1917.)

Base price on ¼ in. to 3 in. black steel pipe, f.o.b. Pittsburgh, Pa., a discount (see page 9) of 52 and 5 and 2½ per cent from the manufacturers' published standard list; other grades and sizes to receive the same percentage of discount.

Boiler Tubes

Prices for special boiler tube skelp and boiler tubes recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917; May 21, 1918, and Sept. 26, 1918:

Special Skelp for Boiler Tubes, etc.

Base sizes, f.o.b. Pittsburgh, per 100 lb	$3.40
Other sizes, f.o.b. Pittsburgh, per 100 lb	3.55

Lapweld Steel Boiler Tubes

3½ to 4½ in. tubes	34	per cent discount from list
2½ to 3¼ in. tubes	24	per cent discount from list
2¼ in. tubes	17½	per cent discount from list
1¾ to 2 in. tubes	13	per cent discount from list

Lapwelded Superheater Tubes

Inches	Thickness nearest B.W.G. or Fraction	Prices per foot in cents: Size 5 in.	5¼ in.	5⅝ in.	5½ in.	6 in.
.150	9	54½	57¼	58¾	60	....
.156	5/32 in.	56½	59½	61	62½	....
.165	8	59¾	62¾	64½	66	72
.180	7	65	68¼	70	71¾	78½
.187	3/16 in.	67½	71	72¾	74½	81½

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Sizes over 3 in. not listed; price on application.
Lengths up to and not exceeding 24 feet, regular prices.
Lengths in excess of 24 feet, price on application.
Above prices subject to discount of 5 per cent.

Forming Ends

If National Tube Co. "A," "C" or "D" standard—50c. per tube.
Other than above standard, subject to negotiation.
Above prices are for carload lots f.o.b. Pittsburgh. For less than carload lots prices apply f.o.b. maker's mill.

Charcoal Iron Boiler Tubes

3½ to 4½ in. tubes.....12½ per cent discount from list
3 to 3¼ in. tubes.....List plus 5 per cent
2½ to 2¾ in. tubes.....List plus 7½ per cent
2 to 2¼ in. tubes.....List plus 22½ per cent
1¾ to 1⅞ in. tubes.....List plus 35 per cent

Above prices for carload lots f.o.b. Pittsburgh. For less than carload lots prices apply f.o.b. maker's mill.

The lists to which the above discounts apply are the manufacturer's standard published lists.

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Seamless Steel Tubes

Price for round billets for seamless tubes and for seamless boiler tubes recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917, May 21, 1918, July 30, 1918, and Sept. 26, 1918:

•Round Billets for Seamless Steel Tubes

Base sizes, f.o.b. Pittsburgh, per 100 lb.....$3.25

On round billets for seamless tubes the regular steel bar extras and differentials for sizes and carbon specifications (see page 49) are to be used.

Standard Commercial Seamless Boiler Tubes

	Cold Drawn or Hot Rolled	Per net ton
1 in.	O. D. x No. 13 to No. 10 B.W.G.	$340.00
1⅛ in.	O. D. x No. 13 to No. 10 B.W.G.	340.00
1¼ in.	O. D. x No. 13 to No. 10 B.W.G.	280.00
1⅜ in.	O. D. x No. 13 to No. 10 B.W.G.	270.00
1½ in.	O. D. x No. 13 to No. 10 B.W.G.	220.00
1¾ in.	O. D. x No. 13 to No. 10 B.W.G.	220.00
2 in. and 2¼ in.	O. D. x No. 13 to No. 10 B.W.G.	190.00
2½ in.	O. D. x No. 12 to No. 9 B.W.G.	190.00
2¾ in. and 3 in.	O. D. x No. 12 to No. 9 B.W.G.	180.00
3¼ in. to 3¾ in.	O. D. x No. 11 to No. 8 B.W.G.	180.00
4 in.	O. D. x No. 10 to No. 7 B.W.G.	200.00
4½ in.	O. D. x No. 10 to No. 7 B.W.G.	220.00
5 in.	O. D. x No. 9 to No. 6 B.W.G.	220.00

For gages heavier than specified above add $8 per net ton to prices stated, also adding 10 per cent to theoretical weight of tube in question.

Above prices for carload lots f.o.b. Pittsburgh.

To arrive at net delivered prices per foot on carload quantities, use approximate manufacturing weight per foot, multiplying by above prices per pound plus Pittsburgh freight to destination.

For less than carload quantities add $8 per net ton to above prices. On less than carload quantities, prices are usually quoted net per foot f.o.b. Pittsburgh.

Sizes smaller than 1 in. O.D., or lighter than specified above, are sold at mechanical tube list, less 75 per cent base discount, and subject to mechanical tube cutting charges.

The above prices and conditions apply to seamless boiler tubes, other than locomotive, ordered to "A.S.M.E.," "A.S.T.M.," "Lloyd's," "United States Navy 44-T-8c," of Sept. 1, 1917, and similar specifications.

For tubes to special United States Government, or similar specifications (for example, "U. S. Navy 44-T-3b or 44-P-9b"), 78 per cent base discount from seamless mechanical tube list for random lengths, plus 20 per cent.

For seamless steel staybolt tubing, 75 per cent base discount from mechanical list.

Seamless Mechanical Tubing

Mechanical tubes—½ in. O.D. to 5½ in. O.D. to standard specifications, made from 0.10 to 0.20 per cent carbon steel, in random lengths .....75 per cent base discount

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Mechanical tubes—⅛ in. O.D. to 5½ in. O.D. made from 0.10 per cent to 0.20 per cent carbon steel, to U. S. Government or similar specifications, in random lengths.....78 per cent base discount plus 20 per cent

Except as follows:

⅛ in. O.D. to 1⅝ in. O. D. inclusive, No. 20 BWG.....45 per cent base discount

⅛ in. O.D. to 1⅝ in. O. D. inclusive, No. 18 BWG.....58 per cent base discount

For other than 0.10 to 0.20 per cent carbon steel the above base discounts to be reduced as follows:

0.20 to 0.30 per cent carbon steel..... 2 points
0.30 to 0.40 per cent carbon steel..... 4 points
3.50 per cent nickel steel.....14 points

To arrive at net discounts all base discounts are reduced by the number of points indicated in the following table for each size of gage (for example—½ in. x No. 11 gage, lower base discounts by 28 points).

TABLE OF DIFFERENTIAL DISCOUNTS

Thick. B.W.G. and fractions	Equivalent in decimal of inch	Outside Diameter in Inches													
		½	⅝	¾	⅞	1	1⅛	1¼	1⅜	1½	1¾	2	2¼	2½	2¾
20	0.035	50	45	40	35	31	27	25	25	25	....	....	....	....	....
18	0.049	45	38	35	31	27	22	20	19	18	....	....	....	....	....
16	0.065	41	34	31	27	25	20	17	15	14	13	12	11	11	11
14	0.083	35	29	25	23	21	18	15	12	10	9	7	6	5	5
13	0.095	31	27	23	20	18	16	13	10	8	7	4	3	2	2
12	0.109	30	25	21	18	16	14	11	8	6	5	2	1	....	....
11	0.120	28	24	20	17	15	13	9	7	5	3	....	....	....	....
10	0.134	....	23	18	16	14	12	8	6	4	2	....	....	....	....
5/32	0.156	....	....	17	15	13	10	7	5	3	1	....	....	....	....
3/16	0.188	....	....	15	13	11	9	6	4	2	....	....	....	....	....
7/32	0.219	....	....	....	11	9	7	4	2	1	....	....	....	....	....
1/4	0.250	....	....	....	....	8	6	3	1	....	....	....	....	....	....
5/16	0.312	....	....	....	....	....	....	2	....	....	....	....	....	....	....
3/8	0.375	....	....	....	....	....	....	1	....	....	....	....	....	....	....

Sizes smaller than ⅛ in. O.D. and lighter than No. 20 B.W.G. subject to negotiation.

Cutting.—Tubes not over 18 ft. long, cut to specified lengths, to be charged for at not to exceed the following schedule in dollars per 100 pieces (see table on page 75).

Boxing.—If necessary to ship tubes boxed, the following maximum schedule may be charged:

Box requiring 1 to 10 ft. of lumber.....$0.50 each
Box requiring 11 to 20 ft. of lumber..... 1.00 each
Box requiring 21 to 30 ft. of lumber..... 1.50 each
Box requiring 31 to 40 ft. of lumber..... 2.00 each
Box requiring 41 to 50 ft. of lumber..... 2.50 each
Box requiring 51 to 60 ft. of lumber..... 3.00 each
Box requiring 61 to 70 ft. of lumber..... 3.50 each
Box requiring 71 to 80 ft. of lumber..... 4.00 each
Box requiring 81 to 90 ft. of lumber..... 4.50 each
Box requiring 91 to 100 ft. of lumber..... 5.00 each

Delivery.—All above prices on mechanical tubing cover delivery f.o.b. maker's mill.

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FOR CUTTING MECHANICAL TUBES NOT OVER 18 FEET LONG TO SPECIFIED LENGTHS PER 100 PIECES

Gage	Equivalent in decimal of inch	Outside Diameter in Inches																						
		½	⅝	¾	⅞	1	1⅛	1¼	1⅜	1½	1¾	2	2¼	2½	2¾	3	3¼	3½	3¾	4	4¼	4½	4¾	5	5½
20	0.035	1.50	1.52	1.54	1.56	1.58	1.60	1.62	1.64	1.68	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	0.049	1.52	1.56	1.58	1.62	1.66	1.68	1.72	1.76	1.78	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
16	0.065	1.54	1.60	1.64	1.68	1.74	1.76	1.82	1.86	1.90	1.98	2.08	2.16	2.26	2.34	....	....	....	....	....	....	....	....	....	....
14	0.083	1.58	1.64	1.70	1.74	1.82	1.86	1.92	1.96	2.02	2.14	2.24	2.36	2.48	2.58	....	....	....	....	....	....	....	....	....	....
13	0.095	1.62	1.68	1.74	1.80	1.86	1.92	2.00	2.06	2.12	2.24	2.38	2.50	2.62	2.76	2.88	3.00	3.14	....	....	....	....	....	....	....
12	0.109	1.64	1.70	1.78	1.86	1.92	2.00	2.08	2.14	2.22	2.36	2.50	2.66	2.80	2.94	3.10	3.24	3.38	....	....	....	....	....	....	....
11	0.120	1.66	1.74	1.80	1.90	1.98	2.06	2.14	2.22	2.30	2.46	2.62	2.78	2.94	3.10	3.26	3.42	3.58	3.74	3.90	....	....	....	....	....
10	0.134	....	1.76	1.84	1.94	2.02	2.12	2.20	2.30	2.38	2.56	2.74	2.92	3.10	3.28	3.46	3.64	3.82	4.00	4.18	4.36	4.54	4.72	4.88	5.30
5/32	0.156	....	....	1.90	2.00	2.12	2.20	2.32	2.42	2.52	2.74	2.94	3.16	3.36	3.56	3.78	3.98	4.20	4.40	4.62	4.82	5.02	5.24	5.44	5.90
3/16	0.188	....	....	1.96	2.08	2.22	2.34	2.48	2.60	2.72	2.98	3.22	3.48	3.72	3.98	4.22	4.48	4.72	4.98	5.22	5.48	5.72	5.98	6.22	6.70
7/32	0.219	....	....	....	2.16	2.30	2.46	2.62	2.76	2.90	3.20	3.48	3.78	4.06	4.36	4.66	4.94	5.24	5.52	5.82	6.12	6.40	6.70	6.98	7.60
1/4	0.250	....	....	....	....	2.40	2.58	2.74	2.90	3.08	3.40	3.74	4.08	4.40	4.74	5.08	5.40	5.74	6.08	6.40	6.74	7.08	7.40	7.74	8.40
5/16	0.312	....	....	....	....	....	....	2.98	3.16	3.38	3.80	4.22	4.64	5.06	5.46	5.88	6.30	6.72	7.14	7.76	7.98	8.38	8.80	9.22	10.10
3/8	0.375	....	....	....	....	....	....	3.16	3.40	3.66	4.16	4.66	5.16	5.66	6.16	6.66	7.16	7.66	8.16	8.66	9.16	9.66	10.16	10.66	11.70
1/2	0.500	....	....	....	....	....	....	....	....	4.08	4.76	5.40	6.08	6.74	7.40	8.08	8.74	9.40	10.08	10.74	11.40	12.08	12.74	13.40	14.70
5/8	0.625	....	....	....	....	....	....	....	....	....	....	6.00	6.82	7.66	8.50	9.32	10.16	10.98	11.82	12.66	13.50	14.32	15.16	16.00	17.70
3/4	0.750	....	....	....	....	....	....	....	....	....	....	....	....	....	....	10.40	11.40	12.40	13.42	14.40	15.42	16.42	17.42	18.42	20.40
7/8	0.875	....	....	....	....	....	....	....	....	....	....	....	....	....	....	11.32	12.50	13.66	14.82	16.00	17.16	18.32	19.50	20.66	23.00
1	1.000	....	....	....	....	....	....	....	....	....	....	....	....	....	....	12.08	13.42	14.74	16.08	17.42	18.74	20.08	21.42	22.74	25.40

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Sheets

(Base price approved by President Wilson, Nov. 5, 1917.)

Base prices of sheets (see page 9) as follows:

	Per 100 lb.
No. 28 black sheets, f.o.b. Pittsburgh, Pa	$5.00
No. 10 blue annealed sheets, f.o.b. Pittsburgh	4.25
No. 28 galvanized sheets, f.o.b. Pittsburgh	6.25

The above prices to apply to Bessemer and open-hearth grades.

Subject to the following list of extras (in cents per 100 lb.) recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 20, 1917, May 21, 1918, and Sept. 26, 1918.

One Pass Cold Rolled Black Sheets

Standard Differentials and Extras

Gage	Price per 100 lb.
30	Add 20c.
29	Add 10c.
28 (carload quantities)	Base
27	Deduct 5c.
25-26	Deduct 10c.
22-24	Deduct 15c.
17-21	Deduct 20c.
15-16	Deduct 25c.
13-14	Deduct 30c.
10-12	Deduct 35c.

Standard Sizes

Gages Nos. 12 to 30 inclusive, 24, 26, 28 and 30 in. wide, by 72, 84, 96 and 120 in. long. Gages Nos. 14 to 28 inclusive, in addition to the above, 36 in. wide by 96 in. and 120 in. long.

See note under extras for boxing and crating.

Extras for Length

Gage	Length	Extra per 100 lb.
16 and heavier	60 in. and longer	Base
16 and heavier	Under 60 to 30 in	5c.
16 and heavier	Under 30 to 18 in	10c.
17 to 18	Over 60 to 120 in	Base
17 to 18	Over 120 to 132 in	5c.
17 to 18	Over 132 to 144 in	10c.
17 to 18	Under 60 to 30 in	5c.
17 to 18	Under 30 to 18 in	10c.
19 and lighter	Over 60 to 120 in	Base
19 and lighter	Over 120 to 144 in	10c.
19 and lighter	Under 60 to 30 in	10c.
19 and lighter	Under 30 to 18 in	20c.

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Extras for Width

Gage	Width	Extra per 100 lb.
16 and heavier	24 in. and wider	Base
16 and heavier	Under 24 to 12 in	10c.
16 and heavier	Under 12 to 6 in	15c.
17 to 18	Over 24 to 36 in	Base
17 to 18	Over 36 to 48 in	5c.
17 to 18	Under 24 to 12 in	10c.
17 to 18	Under 12 to 6 in	15c.
19 and lighter	Under 24 to 12 in	10c.
19 and lighter	Under 12 to 6 in	20c.
19 to 21	Over 24 to 36 in	Base
19 to 21	Over 36 to 44 in	15c.
19 to 21	Over 44 to 48 in	25c.
22 to 24	Over 24 to 36 in	Base
22 to 24	Over 36 to 40 in	20c.
22 to 24	Over 40 to 48 in	40c.
25 to 27	Over 24 to 36 in	Base
25 to 27	Over 36 to 40 in	20c.
25 to 27	Over 40 to 44 in	40c.
28	Over 32 to 36 in	10c.
28	Over 36 to 40 in	40c.
29 to 30	Over 32 to 36 in	10c.

Blue Annealed Sheets

Standard Differentials and Extras

Gage	Price per 100 lb.
8 and heavier	Less 5c.
9 and 10 (carload quantities)	Base
11 and 12	Add 5c.
13 and 14	Add 10c.
15 and 16	Add 20c.

Extras for Length

Gage	Length	Extra per 100 lb.
16 and heavier	60 in. and longer	Base
16 and heavier	Under 60 to 30 in	Add 5c.
16 and heavier	Under 30 to 18 in	Add 10c.

Extras for Width

Gage	Width	Extra per 100 lb.
16 and heavier	Under 24 to 12 in	Add 5c.
16 and heavier	Under 12 to 6 in	Add 10c.
16 and heavier	24 in. and wider	Base

Standard Sizes

Width—24, 26, 28, 30, 36 and 48 in.
Length—72, 84, 96, 120 and 144 in.
See note under extras for boxing and crating.

Galvanized Sheets and Long Terne Sheets

Standard Differentials and Extras for Gage

Gage	Price per 100 lb.
30	Add 50c.
29	Add 25c.
28 (carload quantities)	Base

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Gage	Price per 100 lb
27	Deduct 15c.
25–26	Deduct 30c.
22–24	Deduct 45c.
17–21	Deduct 60c.
15–16	Deduct 75c.
12–14	Deduct 90c.
10–11	Deduct $1.00

Standard Sizes

Gages Nos. 12 to 30, inclusive, 24, 26, 28, 30 and 36 in. wide, by 72, 84, 96 and 120 in. long.

Extras for Length

Gage	Length	Extra per 100 lb
16 and heavier	60 to 144 in.	Base
16 and heavier	Under 60 to 30 in.	5c.
16 and heavier	Under 30 to 18 in.	10c.
17 to 18	Over 60 to 120 in.	Base
17 to 18	Over 120 to 132 in.	5c.
17 to 18	Over 132 to 144 in.	10c.
17 to 18	Under 60 to 30 in.	5c.
17 to 18	Under 30 to 18 in.	10c.
19 and lighter	Over 60 to 120 in.	Base
19 and lighter	Over 120 to 144 in.	10c.
19 and lighter	Under 60 to 30 in.	10c.
19 and lighter	Under 30 to 18 in.	20c

Extras for Width

Gage	Width	Extra per 100 lb
10–15	Over 32 to 40 in.	None
	Over 40 to 44 in.	10c.
	Over 44 to 48 in.	20c.
16–18	Over 32 to 36 in.	None
	Over 36 to 44 in.	10c.
	Over 44 to 48 in.	20c.
19–21	Over 32 to 36 in.	None
	Over 36 to 40 in.	20c.
	Over 40 to 44 in.	30c.
	Over 44 to 48 in.	40c.
22–24	Over 32 to 36 in.	None
	Over 36 to 40 in.	20c.
	Over 40 to 44 in.	40c.
	Over 44 to 48 in.	60c.
25–26	Over 32 to 36 in.	Base
	Over 36 to 40 in.	30c.
	Over 40 to 44 in.	60c.
27	Over 32 to 36 in.	10c.
	Over 36 to 40 in.	50c.
	Over 40 to 44 in.	75c.

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Gage	Width	Extra per 100 lb
28	Over 32 to 36 in	20c.
	Over 36 to 40 in	60c.
29-30	Over 32 to 36 in	20c.
24 and heavier	Under 24 to 12 in	15c.
	Under 12 to 9 in	25c.
25 and lighter	Under 24 to 12 in	20c.
	Under 12 to 9 in	35c.

See note under boxing and crating.

Painted and Formed Products

Standard Differentials and Extras

Extras per 100 lb. over corresponding gages of flat sheets per square are based on weight per square multiplied by extra per 100 lb.

	GAGES			
	29	25 to 28	19 to 24	12 to 18
Painting				
Red oxide of iron	.....	$0.25	$0.20	$0.15
Forming				
2-2½-3 and 5 in. corrugated	$0.05	.05	.05	.05
2 V-crimp—without sticks	.05	.05	.05	.....
⅝-1¼ in. corrugated	.10	.10	.10	.....
3 V-crimp—without sticks	.10	.10	.10	.....
Pressed standing seam—with cleats	.....	.15	.15	.....
Plain roll roofing—with or without cleats	.15	.15	.15	.....
Plain brick siding	.20	.20	.....	.....
Beaded ceiling (gages 19 to 28, inclusive, only)	.....			$0.25 per 100 lb.
Weatherboard siding (gages 19 to 28, inclusive, only)	.....			.25 per 100 lb.
Rock face brick (and stone) siding (gages 25 to 28, inclusive, only)	.....			.25 per 100 lb.
Extras in Addition to Above				
Corrugating sheet crosswise	$0.10	$0.10	$0.10	$0.10
Curving — corrugated sheets, single curve	.25	.25	.25	.25
Curving — corrugated sheets, double curves	.50	.50	.50	.50
Forming—sheets under 60 in. long to 30 in. inclusive	.05	.05	.05	.05
Forming—sheets under 30 in. long to 20 in. inclusive	.10	.10	.10	.10
Forming—sheets under 20 in. long	.25	.25	.25	.25

Lengths—Standard lengths of all forms are 60, 66, 72, 78, 84, 90, 96, 102, 108, 114, 120, 132 and 144 in. Flat sheets extras will apply on lengths over 120 in. or shorter than 60 in.

Sticks for V-crimp roofing, 25c. per 100 lin. ft.

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Standard Miscellaneous Extras

Shearing Circles, All Gages

9 to 10 gage	Add 25 per cent
11 to 16 gage	Add 30 per cent
17 to 18 gage	Add 35 per cent
19 to 20 gage	Add 40 per cent

Prices on circles lighter than No. 20 will be quoted on application. Prices of finished circles to be determined by adding the percentage extra to the price of the finished rectangle.

Resquaring

5 per cent of price of sheet at time of resquaring.

Patent or Stretcher Leveling

Patent or stretcher leveling (not resquared), 25c. per 100 lb.

Inspection

Special inspection by buyer, 10c. per 100 lb.

Extras for Boxing and Crating	Per Cwt. Net Weight of Sheets
Skeleton crates	$0.40
Skeleton crates, felt lined	.50
Tight boxes, unlined	.60
Tight boxes, felt lined	.70
Bundled with felt edge	.10

Crating extras are based on crates containing 500 to 600 lb. For material crated otherwise, prices will be quoted on application.

Note.—On all sizes, other than standard, when specified in quantities of less than 4000 lb. to the item, prices will be quoted on application.

Miscellaneous

	Extra per 100 lb.
Full cold rolled and annealed	$0.15
Single pickled, cold rolled and annealed	.40
Hot rolled, pickled and annealed, oiled or lime finish	.45
Hot rolled, pickled and annealed	.35
Full pickled, full cold rolled and reannealed	.60
Blue stovepipe stock	.15
Range steel to manufacturers	.30
(If patent leveled)	.55
Blue range steel	.50
(If patent leveled)	.75
Deep stamping or drawing	.25
Extra deep stamping or drawing	.50
Patent or stretcher leveling	.25
Oiling	.10
Lime finish	.10
Deoxidizing	.15
P. A. C. R. and reannealed for tinning	.50
Bow socket stock	.50

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	Extra per 100 lb.
Shovel stock carbon 0.25 to 0.40	$0.10
Milk can stock	.50
Roller leveling	.10
Extra box annealing	.15
Long ternes, special finish	.50
Army flange steel commercial, not subject to physical test	.25
Army flange steel (elastic limit not exceeding 40,000 lb. per sq. in.)	.50
Navy medium steel	.10
Carbon over .40 to .60	.25
Carbon over .60 to .90	.40

Extras for special analysis subject to special negotiation.

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FORMED ROOFING SHEETS

Standard Weights Per Square

Weight of bands not included.

In order to insure uniformity and to avoid violating the maximum Government pound prices as announced, it is essential that the square weights given in the following table be observed when Formed Sheets for Roofing are sold by the square.

Number of Corrugated Sheets in One Square
(100 sq. ft.—no allowance for laps)

Length of Sheet	2½-Inch Corrugations (Sheet 26 In. Wide)	1¼-Inch Corrugations (Sheet 25 In. Wide)
60 inches	9.231	9.600
72 inches	7.692	8.000
84 inches	6.593	6.857
96 inches	5.769	6.000
108 inches	5.128	5.333
120 inches	4.616	4.800
144 inches	3.846	4.000

Number of Square Feet in One Corrugated Sheet
(Standard Lengths)

Length of Sheet	2½-Inch Corrugations (Sheet 26 In. Wide)	1¼-Inch Corrugations (Sheet 25 In. Wide)
60 inches	10.833	10.416
72 inches	13.000	12.500
84 inches	15.166	14.583
96 inches	17.333	16.666
108 inches	19.500	18.750
120 inches	21.666	20.833
144 inches	26.000	25.000

Products	Gage	Galvanized												Painted									
		29	28	27	26	25	24	23	22	21	20	18	16	28	27	26	25	24	23	22	21	20	18	16
2½-inch Corrugated Siding (26 in. Wide)		77	84	91	98	111	125	138	151	165	178	232	286	68	75	82	95	109	122	136	149	163	216	270
2½-inch Corrugated Roofing (27½ in. Wide)		78	85	92	99	113	126	140	153	167	181	235	290	69	76	83	97	110	124	137	151	165	219	274
1¼-inch Corrugated		81	88	95	102	116	130	144	158	172	186	....	....	71	78	85	99	113	127	141	155	169	....	....
Two V-Crimped, without Sticks		78	85	91	98	112	125	139	152	166	179	....	....	69	76	82	96	109	123	136	150	164	....	....
Three V-Crimped, without Sticks		79	86	93	100	114	128	142	155	169	183	....	....	70	77	84	98	111	125	139	153	167	....	....
Pressed Standing Seam, without Cleats		79	86	93	100	114	128	142	155	169	183	....	....	70	77	84	98	111	125	139	153	167	....	....
Roll Roofing, without Cleats		81	88	95	102	116	130	....	....	....	....	....	....	71	78	85	99	113	....	....	....	....	....	....
Roll and Cap Roofing, with Caps and Cleats		85	93	100	108	122	137	....	....	....	....	....	....	75	83	90	105	120	....	....	....	....	....	....
Beaded Ceiling		78	85	91	98	112	125	....	....	....	....	....	....	69	76	82	96	109	....	....	....	....	....	....
Weatherboard Siding		81	88	95	102	116	130	144	158	....	....	....	....	71	78	85	99	114	128	142	....	....	....	....
Plain Brick Siding		72	78	84	91	....	....	....	....	....	....	....	....	64	70	76	....	....	....	....	....	....	....	....
Rock Face Brick (and Stone) Siding		72	78	84	91	....	....	....	....	....	....	....	....	64	70	76	....	....	....	....	....	....	....	....

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Automobile Sheet Prices—Based on No. 22 Gage

Other gages at usual differentials.

Items.	Primes only. Per 100 lb.	Primes when seconds up to 15 per cent are taken. Per 100 lb.	Seconds arising.
Automobile body stock.....	$5.95	$5.85	*See Note
Automobile body stock, deep stamping.....	6.20	6.10	
Automobile body stock, extra deep stamping.....	6.45	6.35	
Hood, flat fender, door and apron, or splash guard stock.	6.05	5.95	
Crown fender, cowl and radiator casing, deep stamping.....	6.30	6.20	
Crown fender, cowl and radiator casing, extra deep stamping..	6.55	6.45	

Automobile Sheet Extras for Extreme Widths

Nos. 17 and 18 over 36 in. to 44 in., 10c. per 100 lb.
Nos. 19 to 21 over 36 in. to 44 in., 30c. per 100 lb.
Nos. 22 to 24 over 36 in. to 40 in., 40c. per 100 lb.
Nos. 22 to 24 over 40 in. to 44 in., 80c. per 100 lb.

Black sheet extras to apply on narrow widths.

Electrical Sheets

Guaranteed as to electrical efficiency. Manufactured under various trade names and guaranteed to meet the established standard of the grades under the trade name given below.

Armature grade, base sizes, No. 28 gage.....$6.00
U. S. electric, base sizes, No. 28 gage..... 6.50
Dynamo, base sizes, No. 28 gage..... 8.00
Apollo special, base sizes, No. 28 gage..... 8.50

Black sheet extras to apply to special sizes.

Quantity Differential

(Applicable to all sheets)

For less than carload shipments an additional charge of from $0.10 to $0.50 per 100 pounds may be made, according to quantity, sizes ordered and specifications.

Commercial practice permits of a tonnage weight variation of 2½ per cent either way on gages 17 to 30 inclusive and 5 per cent either way on gages 16 and heavier as produced by sheet or jobbing mills.

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*10 per cent less than the invoice Pittsburgh price for corresponding primes.

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Tin Plate

(Base price approved by President Wilson, Nov. 5, 1917.)

Base price of coke tin plates, Bessemer and open-hearth grades, f.o.b. Pittsburgh, Pa., see page 10, per 100 lb. base box $7.75

Subject to the following differentials and extras for tin plates and terne plates recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 20, 1917; May 21, 1918, and Sept. 12, 1918:

Tin and Terne Plate

STANDARD DIFFERENTIALS AND EXTRAS

Cokes and Charcoals—Bessemer or Open-Hearth

		Add for Charcoals					
Basis	Cokes	A	2A	3A	4A	5A	Prem.
55 lb.	7.35c.	.80c.	1.20c.	1.50c.	2.10c.	2.70c.	3.30c.
60 lb.	7.37½c.	.80c.	1.20c.	1.50c.	2.10c.	2.70c.	3.30c.
65 lb.	7.40c.	.80c.	1.20c.	1.50c.	2.10c.	2.70c.	3.30c.
70 lb.	7.45c.	.80c.	1.20c.	1.50c.	2.10c.	2.70c.	3.30c.
75 lb.	7.50c.	.80c.	1.20c.	1.50c.	2.10c.	2.70c.	3.30c.
80 lb.	7.55c.	.80c.	1.20c.	1.50c.	2.10c.	2.70c.	3.30c.
85 lb.	7.60c.	.80c.	1.20c.	1.50c.	2.10c.	2.70c.	3.30c.
90 lb.	7.65c.	.80c.	1.20c.	1.50c.	2.10c.	2.70c.	3.30c.
95 lb.	7.70c.	.80c.	1.20c.	1.50c.	2.10c.	2.70c.	3.30c.
100 lb.	7.75c.	.80c.	1.20c.	1.50c.	2.10c.	2.70c.	3.30c.
107 lb.	7.90c.	1.00c.	1.55c.	2.00c.	2.90c.	3.80c.	4.70c.
128 lb.	8.50c.	1.80c.	2.15c.	3.05c.	3.95c.	4.85c.	5.75c.
135 lb.	8.65c.	1.80c.	2.15c.	3.05c.	3.95c.	4.85c.	5.75c.
148 lb.	9.15c.	2.40c.	2.75c.	3.65c.	4.55c.	5.45c.	6.35c.
155 lb.	9.30c.	2.40c.	2.75c.	3.65c.	4.55c.	5.45c.	6.35c.
168 lb.	9.80c.	3.00c.	3.35c.	4.25c.	5.15c.	6.05c.	6.95c.
175 lb.	9.95c.	3.00c.	3.35c.	4.25c.	5.15c.	6.05c.	6.95c.
188 lb.	10.45c.	3.60c.	3.95c.	4.85c.	5.75c.	6.55c.	7.55c.
195 lb.	10.60c.	3.60c.	3.95c.	4.85c.	5.75c.	6.55c.	7.55c.

No.	lb. Cokes	A	2A	3A	4A	5A	Prem.
22–24 Gage per	100.. $6.25	$6.75	$7.00	$7.25	$7.75	$8.25	$8.75
18–21 Gage per	100.. 6.15	6.65	6.90	7.15	7.65	8.15	8.65
16–17 Gage per	100.. 6.05	6.55	6.80	7.05	7.55	8.05	8.55

Unassorted:
Any grade up to 195 lb..... Deduct 5c. Base
Heavier than 195 lb. sold unassorted only.

Extra cleaned cokes ..... Add 10c. Base
Sanitary can stock..... Add 10c. Base
Best cokes ..... Add 30c. Base
Kanners special cokes..... Add 40c. Base
Silvered tin ..... Add 50c. Base

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Wasters:
Cokes, 112 lb. and lighter.....Deduct 25c. Base
Cokes, 113 lb. and heavier.....Deduct 35c. Base
Charcoals, 112 lb. and lighter.....Deduct 25c. Base
Charcoals, 113 lb. and heavier.....Deduct 50c. Base

Odd Size:
All weights up to 195 lb. and all sizes except 14 x 20 and 20 x 28 in lots of less than 100 base boxes ..... Add 10c. Base
All weights heavier than 195 lb. see "Quantity Extra."

Primes Only—Cokes:
All sizes in weights 55 lb. to 135 lb..... Add 10c. Base
All sizes in weights 136 lb. to 195 lb..... Add 20c. Base
Charcoals, all sizes in weights 55 lb. to 195 lb. ..... Add 40c. Base

Quantity:
All sizes in weights 55 lb. to 195 lb. in lots of less than 50 base boxes..... Add 10c. Base
All sizes in weights heavier than 195 lb. in lots of less than 5000 lb.....Add 5c. per 100 lb.

Packing:
Sizes which are usually packed 112 sheets per box that are specified 56 sheets.. Add 10c. Base

Fractions to be not less than ⅛ in.

Tin lined cases ..... Add 40c. Base
The minimum charge in any case to be 40c per package.
Paper lined ..... Add 15c. Base
The minimum charge in any case to be 15c. per package.

Strapping:
Corners only.....Add 5c. per package.
Double strapping.....Add 10c. per package.

Ternes

8 lb.—100 lb	$15.00	per	package
8 lb.—IC	15.30	"	"
12 lb.—IC	17.00	"	"
15 lb.—IC	18.00	"	"
20 lb.—IC	19.60	"	"
25 lb.—IC	20.60	"	"
30 lb.—IC	21.75	"	"
35 lb.—IC	22.75	"	"
40 lb.—IC	24.00	"	"

Wasters:
IC and lighter .....Deduct $0.50 per pkg.
128 lb. and heavier.....Deduct 1.00 per pkg.

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Odd Size:

All weights and all sizes other than 14 x 20 and 20 x 28 in lots of less than 100 base boxes ..... Add 10c. Base

Quantity:

Items less than 50 base boxes ..... Add 10c. Base

Long Ternes—8 lb. Coating

No. 30 gage	$7.00 per 100 lb.
No. 29 gage	6.75 per 100 lb.
No. 28 gage	6.50 per 100 lb.
No. 27 gage	6.35 per 100 lb.
No. 25-26 gage	6.20 per 100 lb.
No. 22-24 gage	6.05 per 100 lb.
No. 17-21 gage	5.90 per 100 lb.
No. 16 gage	5.75 per 100 lb.

Other grades at usual differentials.

Extras for sizes, etc., same as galvanized sheets.

Seconds	Deduct 50c. per 100 lb.
Unassorted	Deduct 10c. per 100 lb.
Primes only	Add 10c. per 100 lb.

Tin Mill Black Plate

Hot Rolled and Annealed, or Hot Rolled, 1-Pass Cold Rolled

Nos. 15-16	$4.80 per 100 lb.
Nos. 17-21	4.85 per 100 lb.
Nos. 22-24	4.90 per 100 lb.
Nos. 25-27	4.95 per 100 lb.
No. 28	5.00 per 100 lb.
Nos. 29-30	5.05 per 100 lb.
Nos. 30½-31	5.10 per 100 lb.
No. 32	5.15 per 100 lb.
No. 33	5.20 per 100 lb.
No. 34	5.25 per 100 lb.
No. 35	5.35 per 100 lb.
No. 36	5.45 per 100 lb.
No. 37	5.55 per 100 lb.
No. 38	5.70 per 100 lb.
Blued stove pipe stock	Add 10c. per 100 lb.
Enameling stock	Add 40c. per 100 lb.
Full finished black plate	Add 40c. per 100 lb.
Show card stock	Add 35c. per 100 lb.
Tea tray stock	Add 40c. per 100 lb.
Milk can stock	Add 50c. per 100 lb.
Nickel plating stock	Add 50c. per 100 lb.

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Extras for Tin Mill Black Plate

Gage	Widths	Lengths
Nos. 15 to 31	10 to 30 None	10 to 84 None
	Over 30 to 32 10c.	
	Under 10 to 6 15c.	
	Under 6 to 4 20c.	
Nos. 32 to 35	10 to 26 None	10 to 40 None
	Over 26 to 30 10c.	Over 40 to 48 5c.
	Over 30 to 32 20c.	Over 48 to 60 10c.
	Under 10 to 8 10c.	Over 60 to 72 20c.
	Under 8 to 5 15c.	Under 10 to 8 10c.
Nos. 36 to 38	10 to 20 None	10 to 30 None
	Over 20 to 24 5c.	Over 30 to 36 20c.
	Over 24 to 28 10c.	Over 36 to 42 25c.
	Over 28 to 30 20c.	Over 42 to 48 30c.
	Under 10 to 8 10c.	Under 10 to 8 10c.
	Under 8 to 5 15c.	
Nos. 39 to 40	10 to 20 None	10 to 28 None
	Over 20 to 24 10c.	Over 28 to 30 10c.
	Under 10 to 8 15c.	Under 10 to 8 15c.
	Under 8 to 5 20c.	

Quantity: Items less than 5000 lb., 10c. per 100 lb.

Boxing: 10c. per 100 lb.

Oiling: Sizes up to 20 wide or 40 long, 10c. per 100 lb.

Resquaring:

No. 28 and heavier—Ends..... 10c. per 100 lb.
Ends and Sides.. 12½c. per 100 lb.
Lighter than No. 28—Ends..... 12½c. per 100 lb.
Ends and Sides.. 15c. per 100 lb.

Width and Length Extras on Cokes and Charcoals

Recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 27, 1917.

All Grades—Cokes to Premier Charcoals:

No. 16 ga. to No. 24 ga. inclusive.
1c. per 100 lb. for each inch or fraction over 30 in. wide.
1c. per 100 lb. for each inch or fraction over 30 in. long.

195 lb. to 90 lb. inclusive.
5c. basis for each inch or fraction over 28 in. wide.
2c. basis for each inch or fraction over 30 in. long.

Lighter than 90 lb. to 75 lb.
10c. basis for each inch or fraction over 28 in. wide.
4c. basis for each inch or fraction over 30 in. long.

Lighter than 75 lb. to 55 lb.
15c. basis for each inch or fraction over 28 in. wide.
5c. basis for each inch or fraction over 30 in. long.

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Standard Steel Cut Nails

Base price and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917, and Sept. 26, 1918:

Base price for 20d to 60d per 100 lb., f.o.b. Pittsburgh..$5

Subject to the following extras per 100 lb., to be added to the base price per 100 lb.

	Extra
Common, Fence and Sheathing	
20d to 60d	Base
10d to 16d	$.05
8d and 9d	.10
6d and 7d	.20
4d and 5d	.30
3d	.45
2d	.75
Casing, Box, Flooring and Finishing	
10d and larger	.15
8d and 9d	.25
6d and 7d	.35
4d and 5d	.50
3d	.70
2d	1.00
Fine Finishing	
3 in. and larger	.25
2½ in. and 2¾ in.	.35
2 in. and 2¼ in.	.45
1¾ in.	.65
1½ in.	.65
1¼ in.	.85
1 in.	1.15
Fine Nails	
4d	.50
3d	.75
2d	1.00
3d Light	1.25
Cut Spikes	
All sizes	.10
Light Barrel and Lining	
1 in.	.85
⅞ in.	1.00
¾ in.	1.20
Common Barrel and Roofing	
1½ in.	.30
1⅜ in.	.40
1¼ in.	.50
1⅛ in.	.60
1 in.	.70
⅞ in.	.85
¾ in.	1.00

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Slating

	Extra
6d	$.30
4d and 5d	.40
3d	.60
2d	.80

Clinch and Boat

3 in. and larger	.45
2½ in. and 2¾ in.	.55
2 in. and 2¼ in.	.65
1½ in. and 1¾ in.	.75
1¼ in.	.95
1 in.	1.15
⅞ in.	1.30
¾ in.	1.45

Cooper

10d	.05
8d	.10
6d and 7d	.20
4d and 5d	.30
3d	.50

Tin and galvanized nails subject to special negotiation.

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Cut Tacks, Brads, Shoe Finders' Goods, etc.

Base price and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 20, 1917.

Cut tacks, nails, brads, etc., to the Jobbing Trade, in full case lots and in shipments of 300 pounds or more with the usual terms and freight allowances, and subject to the customary advances for the retail trade, net base per 100 pounds..... $8.80

All prices for cut tacks, brads and shoe finders' goods include delivery where freight rate is not in excess of 50 cents per 100 lb. Where freight rate exceeds 50 cents per 100 lb. the excess to be paid by buyer.

To above net base add differentials for size and packing, less 10%, as follows:

Differentials of Sizes and Packing

Differentials only are subject to discount

Price per 100 Pounds	12 and larger	10	8	6	4	3	2½	2	1½	1
Bill Poster's Tacks, Blued										
½ lb. Packages.....	$4.90	$5.10	$5.20	$5.40	$5.60	$6.40	$7.20	$8.10		
1, 5 & 10 lb. Packages.....	4.50	4.70	4.80	5.00	5.20	6.00	6.80	7.70		
25 & 50 lb. Boxes.....	3.90	4.10	4.20	4.40	4.60	5.40	6.20	7.10		
100 lb. Kegs.....	3.50	3.70	3.80	4.00	4.20	5.00	5.80	6.70		
Bill Poster's Tacks, Tinned										
½ lb. Packages.....	6.60	6.80	6.90	7.10	7.30	8.10	8.90	9.80		
1, 5 & 10 lb. Packages.....	6.20	6.40	6.50	6.70	6.90	7.70	8.50	9.40		
25 & 50 lb. Boxes.....	5.60	5.80	5.90	6.10	6.30	7.10	7.90	8.80		
100 lb. Kegs.....	5.20	5.40	5.50	5.70	5.90	6.70	7.50	8.40		

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American Carpet Tacks, Bright or Blued										
⅛ lb. Packages	$6.90	$7.20	$7.40	$7.70	$7.90	$9.90				
¼ lb. Packages	6.00	6.30	6.50	6.80	7.00	9.00				
½ lb. Packages	5.10	5.40	5.60	5.90	6.10	8.10				
1, 5 & 10 lb. Packages	4.70	5.00	5.20	5.50	5.70	7.70				
25 & 50 lb. Boxes	4.10	4.40	4.60	4.90	5.10	7.10				
100 lb. Kegs	3.70	4.00	4.20	4.50	4.70	6.70				
American Carpet Tacks, Tinned or Coppered										
⅛ lb. Packages	8.60	8.90	9.10	9.40	9.60	11.60				
¼ lb. Packages	7.70	8.00	8.20	8.50	8.70	10.70				
½ lb. Packages	6.80	7.10	7.30	7.60	7.80	9.80				
1, 5 & 10 lb Packages	6.40	6.70	6.90	7.20	7.40	9.40				
25 & 50 lb. Boxes	5.80	6.10	6.30	6.60	6.80	8.80				
100 lb. Kegs	5.40	5.70	5.90	6.20	6.40	8.40				
Upholsterer's Tacks, Blued										
⅛ lb. Packages	7.10	7.50	7.90	8.40	8.80	10.70	$12.40	$14.60	$17.50	$22.90
¼ lb. Packages	6.20	6.60	7.00	7.50	7.90	9.80	11.50	13.70	16.60	22.00
½ lb. Packages	5.30	5.70	6.10	6.60	7.00	8.90	10.60	12.80	15.70	21.10
1, 5 & 10 lb. Packages	4.90	5.30	5.70	6.20	6.60	8.50	10.20	12.40	15.30	20.70
25 & 50 lb. Boxes	4.30	4.70	5.10	5.60	6.00	7.90	9.60	11.80	14.70	20.10
100 lb. Kegs	3.90	4.30	4.70	5.20	5.60	7.50	9.20	11.40	14.30	19.70

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Upholsterer's Tacks, Tinned										
⅛ lb. Packages	$8.80	$9.20	$9.60	$10.10	$10.50	$12.40	$14.10	$16.30	$19.20	$24.60
¼ lb. Packages	7.90	8.30	8.70	9.20	9.60	11.50	13.20	15.40	18.30	23.70
½ lb. Packages	7.00	7.40	7.80	8.30	8.70	10.60	12.30	14.50	17.40	22.80
1, 5 & 10 lb. Packages	6.60	7.00	7.40	7.90	8.30	10.20	11.90	14.10	17.00	22.40
25 & 50 lb. Boxes	6.00	6.40	6.80	7.30	7.70	9.60	11.30	13.50	16.40	21.80
100 lb. Kegs	5.60	6.00	6.40	6.90	7.30	9.20	10.90	13.10	16.00	21.40
American Cut Tacks, Blued										
⅛ lb. Packages	7.30	7.70	8.10	9.10	10.20	12.00	13.70	16.90	21.70	28.60
¼ lb. Packages	6.40	6.80	7.20	8.20	9.30	11.10	12.80	16.00	20.80	27.70
½ lb. Packages	5.50	5.90	6.30	7.30	8.40	10.20	11.90	15.10	19.90	26.80
1, 5 & 10 lb. Packages	5.10	5.50	5.90	6.90	8.00	9.80	11.50	14.70	19.50	26.40
25 & 50 lb. Boxes	4.50	4.90	5.30	6.30	7.40	9.20	10.90	14.10	18.90	25.80
100 lb. Kegs	4.10	4.50	4.90	5.90	7.00	8.80	10.50	13.70	18.50	25.40
American Cut Tacks, Tinned										
⅛ lb. Packages	9.00	9.40	9.80	10.80	11.90	13.70	15.40	18.60	23.40	30.30
¼ lb. Packages	8.10	8.50	8.90	9.90	11.00	12.80	14.50	17.70	22.50	29.40
½ lb. Packages	7.20	7.60	8.00	9.00	10.10	11.90	13.60	16.80	21.60	28.50
1, 5 & 10 lb. Packages	6.80	7.20	7.60	8.60	9.70	11.50	13.20	16.40	21.20	28.10
25 & 50 lb. Boxes	6.20	6.60	7.00	8.00	9.10	10.90	12.60	15.80	20.60	27.50
100 lb. Kegs	5.80	6.20	6.60	7.60	8.70	10.50	12.20	15.40	20.20	27.10

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Gimp Tacks, Blued										
⅛ lb. Packages	$7.10	$7.40	$7.50	$8.60	$9.40	$11.00	$14.50	$18.60	$25.30	$29.90
¼ lb. Packages	6.20	6.50	6.60	7.70	8.50	10.10	13.60	17.70	24.40	29.00
½ lb. Packages	5.30	5.60	5.70	6.80	7.60	9.20	12.70	16.80	23.50	28.10
1, 5 & 10 lb. Packages	4.90	5.20	5.30	6.40	7.20	8.80	12.30	16.40	23.10	27.70
25 & 50 lb. Boxes	4.30	4.60	4.70	5.80	6.60	8.20	11.70	15.80	22.50	27.10
100 lb. Kegs	3.90	4.20	4.30	5.40	6.20	7.80	11.30	15.40	22.10	26.70
Gimp Tacks, Tinned										
⅛ lb. Packages	8.80	9.10	9.20	10.30	11.10	12.70	16.20	20.30	27.00	31.60
¼ lb. Packages	7.90	8.20	8.30	9.40	10.20	11.80	15.30	19.40	26.10	30.70
½ l Packages	7.00	7.30	7.40	8.50	9.30	10.90	14.40	18.50	25.20	29.80
1, 5 & 10 lb. Pkgs	6.60	6.90	7.00	8.10	8.90	10.50	14.00	18.10	24.80	29.40
25 & 50 lb. Boxes	6.00	6.30	6.40	7.50	8.30	9.90	13.40	17.50	24.20	28.80
100 lb. Kegs	5.60	5.90	6.00	7.10	7.90	9.50	13.00	17.10	23.80	28.40
Gimp Tacks, Japanned										
⅛ lb. Packages	9.60	9.90	10.00	11.10	11.90	13.50	17.00	21.10	27.80	32.40
¼ lb. Packages	8.70	9.00	9.10	10.20	11.00	12.60	16.10	20.20	26.90	31.50
½ lb. Packages	7.80	8.10	8.20	9.30	10.10	11.70	15.20	19.30	26.00	30.60
1, 5 & 10 lb. Packages	7.40	7.70	7.80	8.90	9.70	11.30	14.80	18.90	25.60	30.20
25 & 50 lb. Boxes	6.80	7.10	7.20	8.30	9.10	10.70	14.20	18.30	25.00	29.60
100 lb. Kegs	6.40	6.70	6.80	7.90	8.70	10.30	13.80	17.90	24.60	29.20

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Lace Tacks, Blued										
⅛ lb. Packages	$8.20	$8.80	$9.40	$10.70	$13.70	$16.50	$17.80	$20.70	$26.10	$32.40
¼ lb. Packages	7.30	7.90	8.50	9.80	12.80	15.60	16.90	19.80	25.20	31.50
½ lb. Packages	6.40	7.00	7.60	8.90	11.90	14.70	16.00	18.90	24.30	30.60
1, 5 & 10 lb. Packages	6.00	6.60	7.20	8.50	11.50	14.30	15.60	18.50	23.90	30.20
25 & 50 lb. Boxes	5.40	6.00	6.60	7.90	10.90	13.70	15.00	17.90	23.30	29.60
100 lb. Kegs	5.00	5.60	6.20	7.50	10.50	13.30	14.60	17.50	22.90	29.20
Lace Tacks, Tinned										
⅛ lb. Packages	9.90	10.50	11.10	12.40	15.40	18.20	19.50	22.40	27.80	34.10
¼ lb. Packages	9.00	9.60	10.20	11.50	14.50	17.30	18.60	21.50	26.90	33.20
½ lb. Packages	8.10	8.70	9.30	10.60	13.60	16.40	17.70	20.60	26.00	32.30
1, 5 & 10 lb. Packages	7.70	8.30	8.90	10.20	13.20	16.00	17.30	20.20	25.60	31.90
25 & 50 lb. Boxes	7.10	7.70	8.30	9.60	12.60	15.40	16.70	19.60	25.00	31.30
100 lb. Kegs	6.70	7.30	7.90	9.20	12.20	15.00	16.30	19.20	24.60	30.90
Lace Tacks, Japanned										
⅛ lb. Packages	10.70	11.30	11.90	13.20	16.20	19.00	20.30	23.20	28.60	34.90
¼ lb. Packages	9.80	10.40	11.00	12.30	15.30	18.10	19.40	22.30	27.70	34.00
½ lb. Packages	8.90	9.50	10.10	11.40	14.40	17.20	18.50	21.40	26.80	33.10
1, 5 & 10 lb. Packages	8.50	9.10	9.70	11.00	14.00	16.80	18.10	21.00	26.40	32.70
25 & 50 lb. Boxes	7.90	8.50	9.10	10.40	13.40	16.20	17.50	20.40	25.80	32.10
100 lb. Kegs	7.50	8.10	8.70	10.00	13.00	15.80	17.10	20.00	25.40	31.70

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Swedes' Cut and Trimmers' Tacks, Blued

⅛ lb. Packages	$7.40	$7.80	$8.20	$9.20	$10.30	$12.10	$13.80	$17.40	$22.10	$29.20
¼ lb. Packages	6.50	6.90	7.30	8.30	9.40	11.20	12.90	16.50	21.20	28.30
½ lb. Packages	5.60	6.00	6.40	7.40	8.50	10.30	12.00	15.60	20.30	27.40
1, 5 & 10 lb. Packages	5.20	5.60	6.00	7.00	8.10	9.90	11.60	15.20	19.90	27.00
25 & 50 lb. Boxes	4.60	5.00	5.40	6.40	7.50	9.30	11.00	14.60	19.30	26.40
100 lb. Kegs	4.20	4.60	5.00	6.00	7.10	8.90	10.60	14.20	18.90	26.00

Swedes' Cut and Trimmers' Tacks, Tinned

⅛ lb. Packages	9.10	9.50	9.90	10.90	12.00	13.80	15.50	19.10	23.80	30.90
¼ lb. Packages	8.20	8.60	9.00	10.00	11.10	12.90	14.60	18.20	22.90	30.00
½ lb. Packages	7.30	7.70	8.10	9.10	10.20	12.00	13.70	17.30	22.00	29.10
1, 5 & 10 lb. Packages	6.90	7.30	7.70	8.70	9.80	11.60	13.30	16.90	21.60	28.70
25 & 50 lb. Boxes	6.30	6.70	7.10	8.10	9.20	11.00	12.70	16.30	21.00	28.10
100 lb. Kegs	5.90	6.30	6.70	7.70	8.80	10.60	12.30	15.90	20.60	27.70

Basket Tacks, Blued and Bright

1, 5 & 10 lb. Packages	6.20	6.70	7.50	9.70	12.20	15.20	19.90	23.70	29.50	31.80
25 & 50 lb. Boxes	5.60	6.10	6.90	9.10	11.60	14.60	19.30	23.10	28.90	31.20
100 lb. Kegs	5.20	5.70	6.50	8.70	11.20	14.20	18.90	22.70	28.50	30.80

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Basket Tacks, Tinned										
1, 5 & 10 lb. Packages	$7.80	$8.40	$9.20	$11.40	$13.90	$16.80	$21.60	$25.40	$31.20	$33.50
25 & 50 lb. Boxes	7.20	7.80	8.60	10.80	13.30	16.20	21.00	24.80	30.60	32.90
100 lb. Kegs	6.80	7.40	8.20	10.40	12.90	15.80	20.60	24.40	30.20	32.50
Solid Head Lining Nails, Japanned or Silvered										
1, 5 & 10 lb. Packages	6.60	7.00	7.40	7.90	8.30	10.20	11.90			
25 & 50 lb. Boxes	6.00	6.40	6.80	7.30	7.70	9.60	11.30			
100 lb. Kegs	5.60	6.00	6.40	6.90	7.30	9.20	10.90			

Goods Sold by Length	2	1 3-4	1 1-2	1 1-4	1 1-8	1	7-8	6-8	5-8	4-8	3-8
Clout and Trunk Nails, Blued											
½ lb. Packages	$4.60	$4.70	$4.90	$5.10	$5.20	$5.40	$5.60	$5.80	$6.10	$6.80	$8.90
1, 5 & 10 lb. Packages	4.20	4.30	4.50	4.70	4.80	5.00	5.20	5.40	5.70	6.40	8.50
25 & 50 lb. Boxes	3.60	3.70	3.90	4.10	4.20	4.40	4.60	4.80	5.10	5.80	7.90
100 lb. Kegs	3.20	3.30	3.50	3.70	3.80	4.00	4.20	4.40	4.70	5.40	7.50
Clout and Trunk Nails, Tinned and Coppered											
½ lb. Packages	6.30	6.40	6.60	6.80	6.90	7.10	7.30	7.50	7.80	8.50	10.60
1, 5 & 10 lb. Packages	5.90	6.00	6.20	6.40	6.50	6.70	6.90	7.10	7.40	8.10	10.20
25 & 50 lb. Boxes	5.30	5.40	5.60	5.80	5.90	6.10	6.30	6.50	6.80	7.50	9.60
100 lb. Kegs	4.90	5.00	5.20	5.40	5.50	5.70	5.90	6.10	6.40	7.10	9.20

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Basket and Chair Nails, Blued or Bright											
1, 5 & 10 lb. Packages	$5.10	$5.20	$5.30	$5.50	$5.70	$5.80	$6.00	$6.20	$6.50	$7.20	$9.30
25 & 50 lb. Boxes	4.50	4.60	4.70	4.90	5.10	5.20	5.40	5.60	5.90	6.60	8.70
100 lb. Kegs	4.10	4.20	4.30	4.50	4.70	4.80	5.00	5.20	5.50	6.20	8.30
Basket and Chair Nails, Tinned											
1, 5 & 10 lb. Packages	6.80	6.90	7.00	7.20	7.40	7.50	7.70	7.90	8.20	8.90	11.00
25 & 50 lb. Boxes	6.20	6.30	6.40	6.60	6.80	6.90	7.10	7.30	7.60	8.30	10.40
100 lb. Kegs	5.80	5.90	6.00	6.20	6.40	6.50	6.70	6.90	7.20	7.90	10.00
Finishing Nails, Blued or Bright											
1, 5 & 10 lb. Packages	5.60	3.30	3.70	4.00	4.30	5.20	6.80	8.50	10.20	11.80	13.50
25 & 50 lb. Boxes	5.00	2.70	3.10	3.40	3.70	4.60	6.20	7.90	9.60	11.20	12.90
100 lb. Kegs	4.60	2.30	2.70	3.00	3.30	4.20	5.80	7.50	9.20	10.80	12.50

Swedes Carpet Tacks, Baling Tacks, Canvas Tacks, Cheese Box Tacks, Curtain and Shade Tacks, Trunk Tacks, Broom Tacks, Stamp and Gauger Tacks take the same list as Upholsterer's Tacks.

Railroad Tacks, Roofing Tacks, Hide Tacks take the same list as Bill Poster Tacks.

Looking Glass Tacks, Picture Frame Points take the same list as Lace Tacks.

Berry Box Tacks, Truckers Tacks take the same list as Basket Tacks.

⅛ lb. papers, packed in packages of 12 papers (called a dozen) and 100 dozen in a full case lot.

¼ lb. papers, packed in packages of 12 papers (called a dozen) and 50 dozen in a full case lot.

½ lb. papers are not dozened and are packed 100 lbs. (200 papers) in a full case lot.

1 lb. papers are packed 100 lbs. (100 papers) to a full case lot.

Goods in half sizes not appearing on this list take the same prices as the next smaller size listed.

All packages are packed only as stated above and are full net weight of the size or kind designated.

CARPET TACKS IN GROSS OR HALF GROSS BOXES

Carpet Tacks in gross or half gross boxes take the same proportionate prices as when packed in cartons of one dozen papers each.

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Shoe Finders' Goods

Prices to the different classes of trade and under same conditions as goods on list of "Differentials of Sizes and Packing for Cut Tacks, Brads, etc.," as follows:

Packing Extras

100 lb. kegs bulk	Base
25 lb. boxes bulk	$0.36
1 lb. papers	.90
½ lb. papers	1.26
¼ lb. papers	2.07
⅛ lb. papers	2.88

No goods packed other than stated above.

Cobblers' Nails

4/8 and longer No. 16 gage in bulk—100-lb. kegs	$12.00 base
3½/8	.50 extra
3/8	.75 extra
No. 17 gage	1.00 extra
Lighter than No. 17 gage	1.50 extra
Brass or copper plated	2.50 extra

Extra Iron Clinching Nails

4/8 and longer in bulk—100-lb. kegs	$13.50 base
3½/8	.50 extra
3/8	.75 extra

Swedes' Pegging or Cub Nails

4/8 and longer in bulk—100-lb. kegs	$13.50 base
3½/8	.50 extra
3/8	.75 extra

Channel Nails

4/8 and longer No. 18 gage in bulk—100-lb. kegs	$12.00 base
3½/8	.50 extra
3/8	1.00 extra
No. 19 gage	.50 extra
No. 20 gage	1.00 extra
Tack points	.50 extra

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Hungarian and Hob Nails

3½/8 and longer No. 13 gage and heavier in bulk—100-lb. kegs	$11.50 base
3/8	.50 extra
2½/8	1.00 extra
No. 14 gage	.50 extra
No. 15 gage	1.50 extra
Cone heads	.25 extra
Miner tacks—over price of No. 13 Hungarian nails	.25 extra

American Iron Shoe Nails

4/8 and longer No. 15 gage and heavier in bulk—100-lb. kegs	$9.50 base
3½/8	.25 extra
3/8	.50 extra
No. 16 gage	.50 extra
No. 17 gage	1.00 extra
Swedes shoe nails	.25 extra

Hard Steel Shoe Nails

4/8 and longer No. 15 gage and heavier in bulk—100-lb. kegs	$12.50 base
3½/8	.25 extra
3/8	.50 extra

Shank Tacks and Nails

5/8 and longer in bulk—100-lb. kegs	$12.50 base
4½/8	.25 extra
4/8	.50 extra
3½/8	1.00 extra
3/8	1.50 extra

Hand Shoe Tacks

No. 4 and longer in bulk—100-lb. kegs	$18.00 base
No. 3½ and 3	.50 extra
No. 2½	.75 extra
No. 2	1.25 extra
No. 1½	2.00 extra
No. 1¼	2.50 extra
No. 1	3.50 extra
No. ¾	5.00 extra
No. ½	7.00 extra

All packages are packed full net weight of the size or kind designated.

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Wire Rods

(Base price approved by President Wilson, Oct. 11, 1917.)

Base price of No. 5 common wire rods, f.o.b. Pittsburgh, see page 8, per gross ton.....$57.00

Subject to the following extra, recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, November 14, 1918:

Bundling for export.....$1.00 per gross ton additional

Wire

(Base price approved by President Wilson, Nov. 5, 1917.)

Base price of plain wire, f.o.b. Pittsburgh, see page 9, per 100 lb. .$3.25

Extras on Plain Fence Wire in Coils

Sizes American Steel & Wire Co.'s steel wire gage.	Extras per 100 lb. For annealed wire	For galvanized wire add to price of annealed
Nos. 6 to 9 inclusive	Base	$0.70
No. 10	$0.05	.70
No. 11	.10	.70
Nos. 12 and 12½	.15	.70
No. 13	.25	.70
No. 14	.35	.70
No. 15	.45	1.05
No. 16	.55	1.05

Annealed baling wire, in catch weight bundles, 10c. per 100 lb. extra over plain annealed fence wire. In even weight bundles, a further extra of 5c. per bundle.

Special galvanized, extra over ordinary galvanized, per 100 lb.: No. 14 and coarser, 50c.; Nos. 15 and 16, $1.00.

Even weight bundles, 5c. per bundle extra, except 100 lb. bundles, which are considered standard and take no extra charge.

Wire Products

Wire Nails

Base price recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917, and July 16, 1918:

Base price 20d to 60d common, f.o.b. Pittsburgh, per 100 lb., in carload lots.....$3.50

For less than carload lots add per 100 lb..... .05

Extras in accordance with the following standard nail card:

Standard Nail Card

Extras on Standard Wire Nails in Kegs of 100 lb.

Common Fence, Shingle, Tobacco, Flooring and Common Brads. Advances.	
20d to 60d	Base
10d to 16d	$0.05
8d and 9d	.10
6d and 7d	.20
4d and 5d	.30
3d	.45
2d	.70
3½d	.40

Barbed Common and Barbed Car Nails. 15c. advance over common.	
10d and larger	$0.15
8d and 9d	.25
6d and 7d	.35
4d and 5d	.50
3d	.70
2d	1.00

Casing, Siding and Smooth Box Nails.	
10d and larger	$0.15
8d and 9d	.25
6d and 7d	.35
4d and 5d	.50
3d	.70
2d	1.00

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Barbed box 15c. advance over smooth nails

Smooth Finishing Nails

10d and larger	$0.25
8d and 9d	.35
6d and 7d	.45
4d and 5d	.65
3d	.85
2d	1.15

Slating Nails

2d	$0.80
3d	.60
4d	.40
5d	.40
6d	.30

Fine Nails

2d, extra fine, 1 x 17	$1.10
2d, fine	1.00
3d, 1½ x 15	.50
3d, extra fine, 1⅜ x 16	.65
4d	.50

Barrel Nails

⅝ in.	$1.35
¾ in.	1.00
⅞ in.	.85
1 in.	.70
1⅛ in.	.60
1¼ in.	.50
1⅜ in.	.40
1½ in.	.30

Barbed Roofing Nails

¾ in.	$0.75
⅞ in.	.65
1 in.	.60
1⅛ in.	.60
1¼ in.	.55
1½ and 1¾ in.	.45
2 in.	.35

Clinch Nails (Annealed or Bright)

2d	$1.05
3d	.85
4d and 5d	.65
6d and 7d	.55
8d and 9d	.45
10d to 20d	.35

Hinge Nails (Annealed or Bright)

4d	$0.80
6d	.70
8d	.60
10d and larger	.50

Boat Nails

25c. extra over hinge

Spikes

All sizes to 9 in.	$0.10
10 in. and larger	.25

Special gages 10c. additional

Barbed Dowel Pins

⅝ in.	$1.25
¾ in.	1.00
⅞ in.	.85
1 in.	.70
1⅛ in.	.60
1¼ in.	.60
1⅜ in.	.60
1½ in.	.60

Special Extras on Standard Wire Nails

Annealed nails (except clinch and hinge), 15c. per 100 lb.
Blued nails, 25c. per 100 lb.
Special heads, 15c. per 100 lb.
Special points, 15c. per 100 lb.
Galvanizing all standard nails, at special prices.

Barbed Wire

Base price recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917, May 21, 1918, Sept. 26, 1918, and Oct. 10, 1918.

Base price on standard two-point and four-point hog and cattle pattern painted barbed wire, packed on reels 95 to 120 lb. f.o.b. Pittsburgh, Pa., per 100 lb. $3.65

Add for galvanizing, per 100 lb. .70

Extras for Packing

For spools 75 lbs. to 95 lbs.	$0.15
For spools 60 lbs. to 75 lbs.	.20
For spools 50 lbs. to 60 lbs.	.25
For spools 40 lbs. to 50 lbs.	.40
For spools under 40 lbs.	.65

Special designs and patterns at corresponding prices.

Painting, other than standard color and quality, subject to negotiation.

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Wire Rope

Discounts or additions applying to standard lists in various territories (as stated below), recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917, May 21, 1918, and Sept. 12, 1918; the following discounts and additions to be effective on and after August 28, 1918:

Standard Commercial Wire Rope

Eastern Territory

Territory east of the western line of Missouri, Minnesota, Iowa, Arkansas and Louisiana and including points on either bank of the Missouri River between Sioux City and Kansas City, Mo.

Any point on West Side—not actually on the bank of river—shall be considered to be in Western Territory.

Grade	Consumer	Dealer	Agents and U. S. Gov't.
Bright plough steel	30%	30-2½%	30-10-5%
Bright extra strong	25%	25-2½%	25-10-5%
Bright cast steel	17½%	17½-2½%	17½-10-5%
Bright iron and iron tiller	List	2½%	10-5%

(For above ropes when furnished galvanised add 10% to list, and apply discount 7½ points less than for Bright Rope.)

Galvanised iron rigging and guy rope	Plus 17½%	Plus 15%	List
Galvanised 6 x 37 hawsers	Plus 17½%	Plus 15%	List
Galvanised cast steel rigging and guy rope	2½%	2½-2½%	2½-10-5%
Galvanised 6 x 24 mooring lines	2½%	2½-2½%	2½-10-5%
Galvanised 6 x 12 hawsers	2½%	2½-2½%	2½-10-5%
Galvanised 6 x 12 running ropes	2½%	2½-2½%	2½-10-5%
Galvanised mast arm	2½%	2½-2½%	2½-10-5%

When ropes are made with wire center add 10% to list price per foot.

Delivery

Freight allowed to railroad station nearest point of destination on all shipments weighing over 200 pounds; 200 pounds and under f.o.b. cars shipping point.

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Western Territory

States of North Dakota, South Dakota, Nebraska, Kansas (excepting points on Missouri River between Sioux City and Kansas City), Texas and Oklahoma.

Grade	Consumer	Dealer	Agents and U. S. Gov't.
Bright plough steel	27½%	27½-2½%	27½-10-5%
Bright extra strong	22½%	22½-2½%	22½-10-5%
Bright cast steel	15%	15-2½%	15-10-5%
Bright iron and iron tiller	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%

(For above ropes when furnished galvanized add 10% to list, and apply discount 7½ points less than for Bright Rope.)

Galvanized iron rigging and guy rope	Plus 20%	Plus 20% less 2½%	Plus 20% less 10-5%
Galvanized 6 x 37 hawsers	Plus 20%	Plus 20% less 2½%	Plus 20% less 10-5%
Galvanized cast steel rigging and guy rope	List	2½%	10-5%
Galvanized 6 x 24 mooring lines	List	2½%	10-5%
Galvanized 6 x 12 hawsers	List	2½%	10-5%
Galvanized 6 x 12 running ropes	List	2½%	10-5%
Galvanized mast arm	List	2½%	10-5%

When ropes are made with wire center add 10% to list price per foot.

Delivery

Freight allowed to railroad station nearest point of destination on all shipments weighing over 200 pounds; 200 pounds and under f.o.b. cars shipping point.

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Wyoming, New Mexico and Colorado Territory

Grade	Consumer	Dealer	Agents and U. S. Gov't.
Bright plough steel	25%	25-2½%	25-10-5%
Bright extra strong	20%	20-2½%	20-10-5%
Bright cast steel	12½%	12½-2½%	12½-10-5%
Bright iron and iron tiller	Plus 5%	Plus 5% less 2½%	Plus 5% less 10-5%

(For above ropes when furnished galvanized add 10% to list, and apply discount 7½ points less than for Bright Rope.)

Galvanized iron rigging and guy rope	Plus 22½%	Plus 22½% less 2½%	Plus 22½% less 10-5%
Galvanized 6 x 37 hawsers	Plus 22½%	Plus 22½% less 2½%	Plus 22-1½% less 10-5%
Galvanized cast steel rigging and guy rope	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%
Galvanized 6 x 24 mooring lines	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%
Galvanized 6 x 12 hawsers	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%
Galvanized 6 x 12 running rope	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%
Galvanized mast arm	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%

When ropes are made with wire center add 10% to list price per foot.

Delivery

Delivery on shipments weighing over 200 pounds as below:

Wyoming—Freight allowed to Cheyenne only.

New Mexico—Freight allowed to Trinidad or to Colorado "common points" only.

Colorado—Freight allowed to Denver and "common points" only.

200 pounds and under f.o.b. cars shipping point.

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Montana, Idaho and Utah

Grade	Consumer	Dealer	Agents and U. S. Gov't.
Bright plough steel	20%	20-2½%	20-10-5%
Bright extra strong	15%	15-2½%	15-10-5%
Bright cast steel	7½%	7½-2½%	7½-10-5%
Bright iron and iron tiller	Plus 10%	Plus 10% less 2½%	Plus 10% less 10-5%
Galvanized iron rigging and guy rope	Plus 27½%	Plus 27½% less 2½%	Plus 27½% less 10-5%
Galvanized 6 x 37 hawsers	Plus 27½%	Plus 27½% less 2½%	Plus 27½% less 10-5%
Galvanized cast steel rigging and guy rope	Plus 7½%	Plus 7½% less 2½%	Plus 7½% less 10-5%
Galvanized 6 x 24 mooring lines	Plus 7½%	Plus 7½% less 2½%	Plus 7½% less 10-5%
Galvanized 6 x 12 hawsers	Plus 7½%	Plus 7½% less 2½%	Plus 7½% less 10-5%
Galvanized 6 x 12 running ropes	Plus 7½%	Plus 7½% less 2½%	Plus 7½% less 10-5%
Galvanized mast arm	Plus 7½%	Plus 7½% less 2½%	Plus 7½% less 10-5%

(For above ropes when furnished galvanized add 10% to list, and apply discount 7½ points less than for Bright Rope.)

When ropes are made with wire center add 10% to list price per foot.

Delivery

Delivery on shipments weighing over 200 pounds as below:
Montana—Freight allowed to Butte only.
Idaho—Freight allowed to Salt Lake City or Spokane.
Utah—Freight allowed to Salt Lake City.
200 pounds and under f.o.b. cars shipping point.

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California, Oregon, Nevada and Washington Territory

Grade	Consumer	Dealer	Agents and U. S. Gov't.
Bright plough steel	25%	25-2½%	25-10-5%
Bright extra strong	20%	20-2½%	20-10-5%
Bright cast steel	12½%	12½-2½%	12½-10-5%
Bright iron and iron tiller	Plus 5%	Plus 5% less 2½%	Plus 5% less 10-5%
(For above ropes when furnished galvanised add 10% to list, and apply discount 7½ points less than for Bright Rope.)			
Galvanized iron rigging and guy rope	Plus 22½%	Plus 22½% less 2½%	Plus 22½% less 10-5%
Galvanized 6 x 37 hawsers	Plus 22½%	Plus 22½% less 2½%	Plus 22½% less 10-5%
Galvanized cast steel rigging and guy rope	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%
Galvanized 6 x 24 mooring lines	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%
Galvanized 6 x 12 hawsers	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%
Galvanized 6 x 12 running rope	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%
Galvanized mast arm	Plus 2½%	Plus 2½% less 2½%	Plus 2½% less 10-5%

When ropes are made with wire center add 10% to list price per foot.

Delivery

Delivery on shipments weighing over 200 lbs. as below:

California, Oregon, Washington, Nevada—Delivery allowed to the following points: San Francisco, Los Angeles, Portland, Seattle, Tacoma, Port Blakely, Aberdeen, Hoquiam and Cosmopolis.

If free delivery is made in Spokane, discount shall be 2½% less.

200 lbs. and under f.o.b. cars shipping point.

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Arizona

Grade	Consumer	Dealer	Agents and U. S. Gov't.
Bright plough steel	20%	20-2½%	20-10-5%
Bright extra strong	15%	15-2½%	15-10-5%
Bright cast steel	7½%	7½-2½%	7½-10-5%
Bright iron and iron tiller	Plus 10%	Plus 10% less 2½%	Plus 10% less 10-5%
(For above ropes when furnished galvanized add 10% to list, and apply discount 7½ points less than for Bright Rope.)			
Galvanized iron rigging and guy rope	Plus 27½%	Plus 27½% less 2½%	Plus 27½% less 10-5%
Galvanized 6 x 37 hawsers	Plus 27½%	Plus 27½% less 2½%	Plus 27½% less 10-5%
Galvanized cast steel rigging and guy rope	Plus 7½%	Plus 7½% less 2½%	Plus 7½% less 10-5%
Galvanized 6 x 24 mooring lines	Plus 7½%	Plus 7½% less 2½%	Plus 7½% less 10-5%
Galvanized 6 x 12 hawsers	Plus 7½%	Plus 7½% less 2½%	Plus 7½% less 10-5%
Galvanized 6 x 12 running ropes	Plus 7½%	Plus 7½% less 2½%	Plus 7½% less 10-5%
Galvanized mast arm	Plus 7½%	Plus 7½% less 2½%	Plus 7½% less 10-5%

When ropes are made with wire center add 10% to list price per foot.

Delivery

Freight allowed to any railroad station on all shipments weighing over 200 pounds; 200 pounds and under f.o.b. cars shipping point.

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Special Prices for Odd Ropes

Any rope containing more than one grade of wire will be sold at the price of the highest grade of wire used in making the rope. When rope of a size other than those in list is called for, price to be that for next largest size in list.

Where a strength higher than cast steel is asked for, but below that for extra strong cast steel, the price shall be based upon the list for extra strong cast steel; and, where a greater strength than extra strong is asked for, but below plough steel, the price shall be based upon plough steel; and where a greater strength than plough steel is asked for, the price shall be based upon the lists for special steel ropes.

Terms of Sale

Sixty days net, 2 per cent discount for cash within ten days from date of invoice.

Agent's Service Charge

An agent or dealer of a wire rope manufacturer, on shipments direct from the manufacturer to the consumer, will invoice at the established schedule prices of the manufacturer.

An agent or dealer may charge the consumer an additional 5 per cent for the service of handling a reel of rope from his (agent's) stock, or 10 per cent in the event of his being obliged to cut a specified length of rope from his stock.

No agent or dealer should sell to another agent, dealer or broker without the proper assurance that the consumer, to whom the rope will eventually go, will not be charged on a higher basis than the prices herein.

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Steel Wood Screws

Prices recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 20, 1917.

Discounts from Manufacturers' Published Standard List:

	Per Cent
Bright, flat head	75, 20 and 10
Bright, round and oval head	70, 20 and 10
Bright, fillister head	70, 20 and 10
Blued, flat head, add 5% to net amount of invoice	75, 20 and 10
Blued, round head	70, 20 and 10
Japanned, flat head	67½, 20 and 10
Japanned, round head	65, 20 and 10
Tinned, flat head	60, 20 and 10
Tinned, round head	57½, 20 and 10
Galvanized, flat head	60, 20 and 10
Galvanized, round head	57½, 20 and 10
Coppered, flat head	70, 20 and 10
Coppered, round head	67½, 20 and 10
Bronze plated, flat head	62½, 20 and 10
Bronze plated, round head	62½, 20 and 10
Nickel plated, flat head	62½, 20 and 10
Nickel plated, round head	62½, 20 and 10
Silver plated, flat head, not polished	62½, 20 and 10
Silver plated, round head, not polished	62½, 20 and 10
Brass plated, flat head	62½, 20 and 10
Brass plated, round head	62½, 20 and 10
Antique copper, flat head	47½, 20 and 10
Antique copper, round head	47½, 20 and 10

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Cold Rolled and Cold Drawn Steel

(Base price approved by President Wilson, Nov. 5, 1917.)

Price f.o.b. Pittsburgh, Pa., see page 9, to be 17% discount from the following list (except net prices as stated on list).

Rounds

	Per pound		Per pound
1/16 to 3/32	$0.10	2 to 3	$0.05
1/8 to 5/32	.09½	3 1/16 to 3 7/16	.05½
3/16 to 7/32	.07½	3 1/2 to 3 15/16	.05¾
1/4 to 3/8	.06½	4 to 4 7/16	.06
7/16 to 9/16	.06	4 1/2 to 4 15/16	.06½
5/8 to 11/16	.05¾	5 to 5 1/16	.07
3/4 to 1 7/16	.05½	5 1/2 to 5 15/16	.07¾
1 1/2 to 1 15/16	.05¼	6	.08½

Prices on rounds larger than 6-inch will be quoted on application. All shafts 3 1/16 inch and larger turned and polished.

Prices subject to discount.

Flats

Prices given are in cents per pound.

Thickness in Inches	1/4	5/16 to 1/2	9/16 to 33/32	1 1/16 to 1	1 1/16 to 1 1/2	1 1/16 to 3	Wider than 3
3/16	20	18	18	14	12	..	..
1/8 and 5/32	20	18	18	14	12	10	10
3/16 to 5/16	18	16	16	12	10	8	10
3/8 to 7/16	..	14	14	10	10	8	10
1/2 to 9/16	..	..	10	8	8	8	10
5/8 to 11/16	..	..	10	8	8	8	10
3/4 to 15/16	..	..	..	8	8	8	10
1 to 1 1/16	..	..	..	..	8	8	10
1 1/16 to 1 11/16	..	..	..	..	..	8	10
1 3/4 to 1 15/16	..	..	..	..	..	8	10
2 to 2 15/16	..	..	..	..	..	8	10

Prices subject to discount.

Squares and Hexagons

	Per pound		Per pound
1/8 to 5/16	$0.14	11/16 to 15/16	$0.07¾
3/16 to 7/16	.12	7/8 to 2	.07
1/4 to 5/16	.10	2 1/16 to 2 7/16	.08
3/8 to 7/16	.09	2 1/2 to 3	.08½
1/2 to 5/8	.08½	3 1/16 to 4	.09

Prices subject to discount.

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Standard Key Seating Price List

Diameter of Shaft. Inches	Full Length per Foot	For Coupling per End	Middle Spline			
			First Ft. or Less Milled Ends	Second Ft. and Over per Foot	Extra for Each Drilled End	Extra for Each Square End
1 -1 1/16	$0.16	$0.24	$0.50	$0.16	$0.20	$0.30
1 3/16-1 5/16	.20	.30	.60	.20	.30	.40
1 7/16-1 3/4	.24	.40	.70	.24	.40	.50
1 13/16-2 1/16	.30	.50	.80	.30	.50	.60
2 3/16-2 3/4	.40	.60	.90	.40	.60	.70
2 13/16-3 1/16	.50	.80	1.10	.50	.70	.80
3 7/16-3 7/8	.60	1.00	1.30	.60	.80	1.10
3 15/16-4 1/4	.70	1.20	1.50	.70	.90	1.20
4 5/16-4 3/4	.90	1.40	1.70	.90	1.00	1.30
4 13/16-5 1/4	1.20	1.70	2.20	1.20	1.10	1.50
5 5/16-5 3/4	1.50	2.00	2.50	1.50	1.30	1.70
5 13/16-6	2.00	2.50	3.00	2.00	1.50	2.00

Prices subject to discount.

Standard Keyway List

Diameter of Shaft, Inches	Size of Keyway, Inches	Diameter of Shaft, Inches	Size of Keyway, Inches
3/4 to 7/8	3/16 x 3/32	2 15/16 to 3 1/8	3/4 x 3/8
1 1/16 to 1 1/8	1/4 x 1/8	3 3/16 to 3 3/8	1 1/16 x 1 1/16
1 3/16 to 1 3/8	5/16 x 5/32	3 7/16 to 3 5/8	7/8 x 7/16
1 7/16 to 1 5/8	3/8 x 5/16	3 11/16 to 3 7/8	1 1/16 x 1 1/16
1 11/16 to 1 7/8	7/16 x 7/32	3 15/16 to 4 1/8	1 x 1/2
1 15/16 to 2 1/16	1/2 x 1/4	4 3/16 to 4 5/8	1 1/8 x 1/2
2 3/16 to 2 5/16	5/16 x 5/32	4 11/16 to 5 3/8	1 1/4 x 1/2
2 7/16 to 2 5/8	5/8 x 5/16	5 7/16 to 5 5/8	1 5/8 x 1/2
2 11/16 to 2 7/8	11/16 x 11/32	5 11/16 to 6	1 1/2 x 5/8

Price List for Centering

Sizes	6 to 12 inches long, c. per lb.	12 1/8 to 24 inches long, c. per lb.	24 1/8 inches and longer, c. per lb.
1/2 to 3/4	2 1/2	1 1/2	1
1 1/16 to 1 3/4	1 1/2	1	3/4
1 5/16 to 2 3/4	1	3/4	1/2
2 5/16 to 4	3/4	1/2	5/10
4 1/16 to 6	1/2	5/10	1/10

Above are net prices. No discount.

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Shafting—Extras on Rounds:

List prices on sizes smaller than ¾ in. apply on screw stock quality in random mill lengths only. All other qualities or screw stock cut to accurate lengths—15c. per 100 lb. net extra, in addition to usual extras for accuracy, short and long lengths and special carbon.

Extras for Special and High Carbon Open Hearth Steels:

Specified analysis—carbon .30% and less.	25c. per 100 lb. net
Specified analysis—phos. and sul., .05% Max.	25c. per 100 lb. net
Specified analysis—carbon .30% and less, sulphur guaranteed (under .05%)	50c. per 100 lb. net
Specified analysis—carbon .31% to .50%	50c. per 100 lb. net

Boxing and Burlaping.

Boxing (minimum 50c.)	$0.20 per 100 lb
Burlaping (minimum 25c.), full length	.15 per 100 lb.
Burlaping of ends only	.05 per 100 lb

Piston Rod Steel:

Uniformity to size and carefully selected surface finish—50c. per 100 lb. net extra, in addition to usual extras for accuracy and short and long lengths.

Extra for Odd and Intermediate Sizes:

The following sizes in rounds, hexagons, squares and flats shall be considered standard:

By 64th to 1 in., inclusive.
By 32d—1 1/32 in. to 1 31/32 in., inclusive.
By 16th—2 in. to maker's limit.

All odd and intermediate sizes, excepting those allowing a total tolerance of .008 in. (and such specifications shall be for not less than 2000 lb. of a size), not less than 25c. per 100 lb. net extra, in addition to the usual extras for accuracy, etc.

Extras for Accuracy:

For accuracy from exact size to .0015 in. under, sizes 3 in. diameter and smaller, 25c. per 100 lb. net.

For accuracy from exact size to .001 in. under, or from exact size to not more than .001 in. either way, sizes 2½ in. diameter and smaller, 50c. per 100 lb. net.

For accuracy within 0005 in. either way of a specified size or from exact size to .001 in. over, sizes 2 in. diameter and smaller, $1 per 100 lb. net.

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Extras for Chamfering (for Screw Machine Use Only)

	Rounds, per 100 lb. net	Hexagons and squares. Per 100 lb. net
7/16 in. to 5/8 in.	$0.13	$0.15
11/16 in to 15/16 in.	.10	.13
1 in. to 2 in.	.065	.115
2 1/16 in. and larger	.04	.10

These extras apply on lengths 10 ft. and longer and one end bar only. For sizes smaller than 7/16 in. and shorter than 10 ft., special prices will be quoted.

Quantity Differentials

All specifications for less than 1000 lb. of a size will be subject to the following extras, the total weight of a size ordered to determine the extra, regardless of length and regardless of the exact quantity actually shipped.

500 to 999 lb.	$0.05 per 100 lb. net
100 to 499 lb.	.10 per 100 lb. net
Less than 100 lb.	.20 per 100 lb. net

On all orders for less than a carload there will be an additional charge equivalent to five points reduction in discount.

(*Above less than carload differential recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Sept. 26, 1918.*)

Extras for Long and Short Lengths (per 100 Pounds Net)

	Rounds	Squares	Hexagons	Flats
3 in. to 5 15/16 in.	$1.00	$1.00	$1.00	$2.00
6 in. to 11 15/16 in.	.50	.50	.50	1.00
12 in. to 23 15/16 in.	.25	.50	.25	.50
24 in. to 59 15/16 in.	.10	.25	.10	.25

Lengths longer than 24 ft. and less than 30 ft.	$0.50 per 100 lb. net
30 ft. and less than 35 ft.	1.00 per 100 lb. net
35 ft. and less than 40 ft.	1.50 per 100 lb. net
40 ft. and less than 45 ft.	2.00 per 100 lb. net
45 ft. and longer.	2.50 per 100 lb. net

Extras for long lengths apply on rounds, squares, hexagons and flats.

Freight Allowances and Delivery

The discount or price quoted is base, Pittsburgh. If shipment is made from a point other than Pittsburgh (or Pittsburgh district), the freight from Pittsburgh to destination will be added, and the freight from shipping point to destination deducted. No freight to be allowed or paid by shipper on car blocking.

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Cold Rolled Strip Steel

Base prices and extras for cold rolled strip steel recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 20, 1917, May 21, 1918, and Sept. 26, 1918.

All prices for cold rolled strip steel are f.o.b. Pittsburgh, Pennsylvania.

Base price, $6.50 per 100 lb. for 1½-in. and wider, 0.100 in. and thicker, hard temper, in coils, under 0.20 carbon. Extras to be added to base for size, annealing, cutting, packing, etc., as follows:

Standard Extras—In effect Oct. 25, 1917

Extras for Thickness

0.100-in. and thicker	Base
.050 to 0.099	$0.20
.035 to .049	.45
.031 to .034	.60
.025 to .030	.80
.020 to .024	1.10
.017 to .019	2.10
.015 to .016	2.65
.013 to .014	3.30
.012	3.95
.011	4.20
.010	4.65

Extras for Narrow Widths

Under 1½ in. to 1 in., inc.

0.100 and thicker to 0.035	$0.25
.034 to .020	.40
.019 to .010	.50

Under 1 in. to ½ in., inc.

0.100 and thicker to 0.035	.45
.034 to .020	.60
.019 to .010	.70

Extras for Cutting to Length

24 in. and longer

1 in. and wider

0.100 and thicker	$0.15
.099 to 0.035	.25
.031 to .034	.40
.025 to .030	.55
.020 to .024	.70
.019 to .015	1.50
.013 to .014	2.00
.012 to .010	Coils only

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24 in. and longer
Under 1 in. to ½ in. inc.

0.100 and thicker	$0.25
.099 to 0.035	.50
.034 to .031	.75
.030 to .025	1.00
.024 to .020	1.25
.019 to .013	2.00
.012 to .010	Coils only

For cutting to lengths under 24 in. triple extras will be added.

Extras for Wide Widths

Wider than 6 in., not over 9 in.

0.034 to 0.026	$0.15
.025 to .020	.25
.019 to .015	.50
.014 to 010	*

Wider than 9 in., not over 12 in.

0.035 to 0.026	.40
.025 to .020	.60
.019 to .017	.75
.016 to 010	*

Wider than 12 in., not over 15 in.

0.049 to 0.036	.25
.035	.50
.034 to .031	.60
.030 to .026	.75
.025 to .010	*

Boxing or wrapping, $0.50 per 100 lb. extra Minimum charge, $0.50.

Extras for Annealing

0.100 and thicker	$0.45
.050 to 0.099	.45
.035 to .049	.55
.034 to .020	.70
.019 to .010	No extra for temper

Extras for Small Quantities

On orders or contracts for 18 tons or more, add extras only on items of less than 2000 lb.

3 to less than 18 tons of one size	$0.10
1 to less than 3 tons of one size	.25
1000 to less than 2000 lb. of one size	.40
500 to less than 1000 lb. of one size	1.00
300 to less than 500 lb. of one size	2.00
200 to less than 300 lb. of one size	3.00
100 to less than 200 lb. of one size	5.00

*Extras quoted on application.

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Orders for less than 100 lb. of one size will be accepted only at the full value of 100 lb. Extra for gages lighter than 0.010 quoted on application.

Note.—The charge for cutting to length does not relieve buyer from scrap loss, and short pieces left from cutting will be shipped and invoiced at price of long lengths. If lengths over 36 in. are ordered and no short pieces taken add 10 per cent to net price.

Where extreme accuracy or extra fine surface finish is required or tensile strength has to be guaranteed a reasonable extra charge may be made by agreement between buyer and seller to cover such unusual requirements, provided such extra charge has in all cases been customary heretofore and does not exceed customary charge for similar requirements in the past.

Hot-Rolled Strip Steel

Hot-rolled strip steel is now shown on same list as bands and hoops. See page 56.

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Chain

Base price and extras for iron and steel chain recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, November 20, 1917; May 21 1918, and Sept. 26, 1918:

Base price for 1-in. common steel proof coil chain, self-colored or blacked, per 100 lb., f.o.b. Pittsburgh.....$7.50

Subject to the following extras in dollars per 100 lb., to be added to base price:

Extras for Size

3/16 in.	$6.50	11/16 in.	$.45
¼ in.	4.00	¾ in.	.20
5/16 in.	2.00	13/16 in.	.20
⅜ in.	1.00	⅞ in.	.10
7/16 in.	.80	15/16 in.	.10
½ in.	.65	1 in.	Base
9/16 in.	.65	1⅛ in.	Base
⅝ in.	.45	1¼ in.	Base

Extras for Quality

B B and B B B

B B quality 3/16 in. and ¼ in.	$2.00
B B quality 5/16 in. and ⅜ in.	1.50
B B quality 7/16 in. and larger	1.25
B B B quality 3/16 in. and ¼ in.	4.00
B B B quality 5/16 in. and ⅜ in.	2.50
B B B quality 7/16 in. and larger	2.25

Exact or Neat Sizes

3/16 in.	$2.00
¼ in.	1.50
5/16 in. and larger	Special price

Twist Link Chain

3/16 in. to 7/16 in., inclusive	$1.00
Larger than 7/16 in	Special price

ALL ABOVE PRICES SUBJECT TO A REDUCTION OF $0.25 PER 100 LB., WHEN ORDERED IN MINIMUM CARLOAD LOTS, TO BE SHIPPED IN ONE LOT.

Log Chains

Self-colored, any pattern	$1.25
Polished log chain, any pattern	1.75

Polishing

3/16 in. to ⅝ in., inclusive	$.50
Other sizes	Special price

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Boom or Rafting Chains

With ring and sheared toggle or two sheared toggles.....$0.50
With forged or California pattern toggle..... 1.00

Railroad Brake Chains

Any size 24 in. or longer with one end link on each end, but no eyebolts.....$0.25
Any size 24 in. or longer fitted with one end link and one eyebolt, not threaded or nutted but left plain..... 1.25
Any size 24 in. or longer fitted with end link one end and eyebolt threaded and nutted on other end..... 1.75
Any size 24 in. or longer fitted with eyebolts each end, threaded and nutted..... 2.25
Plain chains 24 in. or longer, no eyebolts or end links..... .25
Any brake chain shorter than 24 in.....Special price

Railroad Switch Chains

Regular pattern, fitted with regular grab hook and long link.....$1.00
Special patterns.....Special price

All above chain ordered to specifications or test other than regular commercial chain.....Special price

Railroad Inspection

When chain for railroads or car builders is subject to test and inspection, such inspection and test must be made at manufacturer's plant.

Extra for Packing

On all chain packed in barrels, kegs, boxes or other containers, add $0.25 per 100 lb.

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Boat Spikes

Base price and extras on boat spikes recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917.

Base sizes, per 100 lb., f.o.b. Pittsburgh.....$5.25

Subject to the following list of extras:

	Per 100 lb.
⅞ in. square, 12 to 24 in. long	Base
¾ in. square, 12 to 24 in. long	$0.15 extra
⅝ in. square, 8 to 16 in. long	.15 extra
½ in. square, 6 to 16 in. long	.15 extra
7/16 in. square, 6 to 12 in. long	.20 extra
⅜ in. square, 4 to 12 in. long	.30 extra
5/16 in. square, 4 to 8 in. long	.45 extra
¼ in. square, 4 to 8 in. long	.75 extra
¼ in. square, 3 to 3½ in. long	1.00 extra

⅜ and 5/16 shorter than 4 in., 25c. per 100 lb. extra.

Standard Railroad Track Spikes

Base price and extras on standard railroad track spikes recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917.

Steel spikes—Base—9/16 in. x 4½ in. and heavier, 200 kegs (200 lb. each) or more, per 100 lb., f.o.b. cars, Pittsburgh, Pa. $3.90

Less than 200 kegs—$1 per 100 lb. extra.

Iron spikes—Base—per 100 lb., f.o.b. cars, Pittsburgh, Pa. 4.50

Base size and quantity and quantity differential as given above for steel spikes.

Extras as follows:

Size	Per 100 lb.	Size	Per 100 lb.
⅝ x 6½ in.	Base	7/16 x 4½ in.	$0.25
6 in.	Base	4 in.	.25
5½ in.	Base	3½ in.	.25
9/16 x 6 in.	Base	⅜ x 4½ in.	.40
5½ in.	Base	4 in.	.40
5 in.	Base	3½ in.	.40
4½ in.	Base	3 in.	.40
½ x 5 in.	$0.15	2½ in.	.65
4½ in.	.15	5/16 x 3½ in.	.95
4 in.	.15	3 in.	.95
3½ in.	.15	2½ in.	.95
3 in.	.15	2 in.	1.30
		Reverse Point	25

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Standard Railroad Track Bolts

Base price and extras for standard railroad track bolts recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917.

Base—Standard button head, oval neck, 3½ in. and longer by ¾ in. and larger, with United States standard square nuts and rolled threads, 200 kegs (200 lb. each) or more, per 100 lb., f.o.b. cars, Pittsburgh....$4.90
Less than 200 kegs—$1 per 100 lb. extra.

Extras as follows:

Diameter	Length	Per 100 lb. Square Nut	Per 100 lb. Hexagon Nut
1¼ in. to ¾ in.....	3½ in.	Base	$0.30
	3¼ in.	$0.20	.40
	3 in.	.30	.50
	2¾ in.	.40	.60
⅝ in.....	3½ in.	.30	.55
	3¼ in.	.35	.60
	3 in.	.40	.65
	2¾ in.	.50	.75
	2½ in.	.60	.85
	2¼ in.	.75	1.00
9/16 in. and ½ in.....	3 in.	.85	1.30
	2¾ in.	1.00	1.45
	2½ in.	1.15	1.60
	2¼ in.	1.20	1.75
	2 in.	1.35	1.90
	1¾ in.	1.55	2.10
	1½ in.	1.65	2.25
7/16 in.....	2½ in.	1.55	2.00
	2¼ in.	1.75	2.20
	2 in.	1.95	2.40
	1¾ in.	2.15	2.60
	1½ in.	2.35	2.80
⅜ in.....	2¼ in.	2.40	2.95
	2 in.	2.65	3.20
	1¾ in.	2.90	3.45
	1½ in.	3.15	3.70

Bolts with cut threads.....$0.10 per 100 lb.
Bolts with square recessed nuts..... .10 per 100 lb.
Bolts with "Ideal" square recessed nuts.....15 per 100 lb.

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Bolts, Nuts and Rivets

Base and discounts from the manufacturers' published standard list for bolts, nuts and rivets, recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917, and May 21, 1918:

Large rivets, structural and ship.....$4.40 Base
Boiler ..... 4.50 Base
7/16 x 6 in. smaller and shorter rivets.....50-10 per cent

Machine bolts, h.p. nuts, ⅜ x 4 in.:
Smaller and shorter, rolled threads.....50-10-5 per cent
Cut threads .....50-5 per cent
Larger and longer sizes.....40-10 per cent

Machine bolts, c.p.c. & t. nuts, ⅜ x 4 in.:
Smaller and shorter.....40-10 per cent
Larger and longer.....35-5 per cent

Carriage bolts, ⅜ x 6 in.:
Smaller and shorter, rolled threads.....50-5 per cent
Cut threads .....40-10-5 per cent
Larger and longer sizes.....40 per cent
Lag bolts .....50-10 per cent
Plow bolts, Nos. 1, 2, 3.....50 per cent
Hot pressed nuts, square, blank..... 2.50c. per lb
Hot pressed nuts, hexagon, blank..... 2.30c. per lb.
Hot pressed nuts, square, tapped..... 2.30c. per lb.
Hot pressed nuts, hexagon, tapped..... 2.10c. per lb.
C. p. c. & t. square and hexagon nuts, blank.... 2.25c. per lb.
C. p. c. & t. square and hexagon nuts, tapped.. 2.00c. per lb.

Semi-finished hexagon nuts:
⅝ in. and larger.....60-10-10 per cent
9/16 in. and smaller.....70-5 per cent
Stove bolts .....70-10 per cent
Stove bolts .....2½ per cent extra for bulk
Tire bolts .....50-10-5 per cent

All prices carry standard extras and are for delivery f.o.b. Pittsburgh, Pa.

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Cast Iron Water Pipe

Base prices and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917, May 21, 1918, July 30, 1918, and Sept. 26, 1918:

Base prices for standard cast iron bell and spigot pipe, 6 in. and larger class "B" or heavier. Per net ton of 2000 lb. without penalty:

$60.00 f.o.b. Birmingham, Ala. Effective Oct. 1, 1918.
67.70 f.o.b. New York. Effective Oct. 1, 1918.
66.80 f.o.b. Chicago. Effective Oct. 1, 1918.

Subject to the following differentials for size and quality:

3 in.	$10.00 over base
4 in.	3.00 over base
Class "A" or gas pipe	1.00 additional

Horse and Mule Shoes

Base price and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, July 16, 1918, and Sept. 26, 1918:

Extra swaged, extra light, light, medium, heavy, long heel, short heel, city pattern and snow shoes, also mule shoes No. 2 and larger, per 100 lbs., base, f.o.b. Pittsburgh..... $6.25

Subject to the following list of extras (in cents per lb. to be added to the base price per lb.).

Extras for Sizes and Quality

Horse shoes, sizes No. 1 and smaller	.25c.
Mule shoes, No. 1	.25c.
Mule shoes, Nos. 00 and 0	1.50c.
Light driving horse shoes, No. 2 and larger	1.00c.
Countersunk, No. 2 and larger	1.00c.
Countersunk, No. 1 and smaller	1.25c.

Extra for Assorting

All assorted kegs, other than fronts and hinds of the same size.... .15c.

Calks

Base price and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, July 16, 1918.

Prices per 100 lb., f.o.b. Pittsburgh:

	200 ton lots and over	Less than 200 tons to carloads inclusive	Less than carloads
Toe calks, blunt, medium flat and square pattern...	$5.50	$5.75	$5.90
Toe calks, sharp pattern....	6.00	6.25	6.40
Heel calks, blunt and medium pattern.....	6.00	6.25	6.40
Heel calks, sharp pattern...	6.50	6.75	6.90

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Warehouse Prices

Prices from stock on iron and steel products, recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Nov. 13, 1917, Sept. 26, 1918, October 3, 1918, October 10, 1918, and November 14, 1918.

Iron and Steel Products

Prices from warehouse stock on following iron and steel products shall not exceed the basis shown in the following table:

To the official maximum carload mill prices, f.o.b. Pittsburgh, of the materials shown below, there may be added the maximum differentials shown, plus carload rate of freight from Pittsburgh to warehouse point.

Items.	Maximum Warehouse Differential per 100 lb.
Bars	$1.00
Structural shapes	1.00
Plates	1.00
Cold rolled shafting, etc	1.25
Hoops, bands and strips	1.00
Black sheets	1.25
Galvanized sheets	1.25
Tin plates	1.25
Blue annealed sheets	1.00
Rivets—boiler	1.00
Rivets—structural	1.00
Square twisted bars	1.00
Floor plates	1.00
Steel chain	1.25
Iron bars	1.00
Track spikes (steel)	1.00
Track bolts	1.00
Boat spikes	1.00
R. E. tire, 1½ x ½ and larger	1.00
R. E. tire (smaller)	1.00
Light rail joints, complete	1.00
Light rails	1.00
Barbed wire (galvanized)	1.00
Boiler tubes (lap welded)	1.25
Boiler tubes, charcoal iron	1.25
Boiler tubes, seamless	1.25
Cold rolled strip steel	1.25
Cut nails	.50
Wire nails	.50
Spring steel	1.00
Steel pipe, black	1.25
Toe calk steel	1.00

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Mechanical Tubing

Prices from warehouse stock on seamless steel mechanical tubing shall not exceed manufacturers' standard list prices, less the minimum discounts shown:

Items.	Minimum Discount
Seamless steel mechanical tubing—Round ⅛ in. to 5½ in. O. D. 0.10 to 0.20 carbon	68 per cent
Except as follows:	
⅛ in. to 1⅝ in. O. D. 18 B.W.G	50 per cent
⅛ in. to 1⅝ in. O. D. 20 B.W.G	35 per cent

To arrive at net discounts, all base discounts are reduced by the number of points shown in table for each size of gage.

Bolts and Small Rivets

Prices from warehouse stock on bolts and rivets shall not exceed manufacturers' standard list prices, less the minimum discounts shown:

Items.	Minimum Discount for Eastern District Per Cent	Minimum Discount for Western District Per Cent	Minimum Discount for Pacific District Per Cent
⅛ x 6 in. smaller and shorter rivets	40	35	25-5-5
Machine bolts h.p. nuts ⅜x4in.:			
Smaller and shorter rolled threads	40-10	40-2½	35-7½
Cut threads	40	35	25-5-5
Larger and longer sizes	25-5	20-5	10-10
Machine bolts, c.p.c. and t. nuts ⅜ x 4 in.:			
Smaller and shorter	25-5	20-5	10-10
Larger and longer	20-2½	10-7½	10-2½
Carriage bolts, ⅜ x 6 in.:			
Smaller and shorter rolled threads	40	35	25-5-5
Cut threads	35	30	25-2½
Larger and longer sizes	20-5	10-10	15
Lag bolts	40	35	25-5-5
Plow bolts, Nos. 1, 2 and 3	33⅓	20-10	25
Semi-finished hexagon nuts:			
⅝ and larger	50-10	50-2½	45-7½
½ and smaller	60	50-10-5	50-5-5
Stove bolts	60-10	60-2½	50-10-5-5
Stove bolts in bulk 2½ per cent extra.			
Tire bolts	40-5	35-5	30-7½

Eastern District: To include all points on or east of the Mississippi River, including Duluth. Points on the west bank would be included in this classification.

Western District: To include points in States west of the Mississippi, except those on the west bank of the river as above mentioned, except the States of California, Oregon, Washington, Idaho, Nevada, Utah and Arizona, Montana, Wyoming, Colorado, New Mexico and the city of El Paso.

Pacific District: To include California, Oregon, Washington, Idaho, Nevada, Utah, Arizona, Montana, Wyoming, Colorado, New Mexico and the city of El Paso.

Above prices are maximum; usual quantity extras of bolt list are not to be added.

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Nuts

Prices from warehouse stock on the following shall not exceed the basis shown below:

From the manufacturers' standard list prices per 100 lb. deduct the minimum discounts shown and add the carload rate of freight per 100 lb. from Pittsburgh to warehouse point.

Items.	Minimum Discounts per 100 lb.
Hot pressed nuts, square, blank	$1.25
Hot pressed nuts, hexagon, blank	1.05
Hot pressed nuts, square, tapped	1.05
Hot pressed nuts, hexagon, tapped	.85
C.p.c. & t. square and hexagon nuts, blank	1.00
C.p.c. & t. square and hexagon nuts, tapped	.75

Above prices are maximum; usual quantity extras of list are not to be added.

Rulings on Differentials

Where materials are customarily shipped in standard containers of substantially uniform type, such as kegs, barrels, boxes, etc., the freight to be added to the carload mill price, f.o.b. Pittsburgh, may include the freight on the average weight of the container as determined by custom and experience.

War tax on freight must not be added to freight cost from mill to warehouse. This tax must be absorbed by warehouse man in his differential.

All material sold from warehouse must be sold in the same list of extras and differentials that govern sales of these products from mill excepting quantity differentials. The sale of small quantities of iron and steel products is an inherent part of warehouse trade and has been considered in fixing the differentials shown.

Machine cutting is not considered an inherent part of warehouse trade, and where machine cutting is done by warehouses it is considered an accommodation to the purchaser and a reasonable charge may be made therefor, such charge to show as a separate item on invoices.

A warehouseman or jobber purchasing materials from another warehouseman or jobber, for resale, may not add any commission or brokerage which would cause the party to whom he resells to pay a price higher than the above maximum prices. In such cases it is recommended that the selling warehouseman or jobber make a reasonable reduction in price, so that the purchasing warehouseman or jobber may, at least, resell without loss, at not to exceed the maximum prices.

All warehouse prices will vary with changes in freight rates, and revised prices due to such changes will be effective on and after effective date of new freight rates.

The table showing maximum selling prices from warehouse stock at various important points is intended merely to illustrate the principles on which the re-sale prices would be calculated. Distributors should figure their re-sale prices from the specific instructions given in regard to each item, and disregard the table on pages 126 and 127 if it seems to conflict.

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THE FOLLOWING TABLE SHOWS MAXIMUM SELLING PRICES FROM WAREHOUSE STOCK AT VARIOUS IMPORTANT POINTS, BASED ON THE RECOMMENDED BASIS OF PRICES. PRICES AT OTHER POINTS TO BE FIGURED IN ACCORDANCE WITH RECOMMENDED BASIS. (See note at foot of page 125.)

	New York	Chicago	Boston	Philadelphia	Cincinnati	Cleveland	Detroit	Buffalo	St. Louis	San Francisco
Bars	$4.145	$4.17	$4.17	$4.13	$4.13	$4.07	$4.13	$4.07	$4.24	$5.15
Structurals	4.245	4.27	4.27	4.23	4.23	4.17	4.23	4.17	4.34	5.25
Plates	4.495	4.52	4.52	4.48	4.48	4.42	4.48	4.42	4.59	5.50
Cold rolled	+13%	+13%	+13%	+13%	+13%	+11%	+12%	+10%	+15%	+33%
Hoops and bands	4.745	4.77	4.77	4.73	4.73	4.67	4.73	4.67	4.84	5.75
Toe calk steel	4.695	4.72	4.72	4.68	4.68	4.62	4.68	4.62	4.79	5.70
Black sheets	6.495	6.52	6.52	6.48	6.48	6.42	6.48	6.42	6.59	7.50
Galvanized sheets	7.745	7.77	7.77	7.73	7.73	7.67	7.73	7.67	7.84	8.75
Blue annealed sheets	5.495	5.52	5.52	5.48	5.48	5.42	5.48	5.42	5.59	6.50
Rivets (boiler)	5.745	5.77	5.77	5.73	5.73	5.67	5.73	5.67	5.84	6.75
Rivets (structural)	5.645	5.67	5.67	5.63	5.63	5.57	5.63	5.57	5.74	6.65
Square twisted bars	4.27	4.295	4.295	4.255	4.255	4.195	4.255	4.195	4.365	5.275
Floor plates	6.245	6.27	6.27	6.23	6.23	6.17	6.23	6.17	6.34	7.25
Steel chain	8.745	8.77	8.77	8.73	8.73	8.67	8.73	8.67	8.84	9.75
Iron bars	4.745	4.77	4.77	4.73	4.73	4.67	4.73	4.67	4.84	5.75
Track spikes (steel)	5.145	5.17	5.17	5.13	5.13	5.07	5.13	5.07	5.24	6.15
Track bolts	6.145	6.17	6.17	6.13	6.13	6.07	6.13	6.07	6.24	7.15
Boat spikes	6.495	6.52	6.52	6.48	6.48	6.42	6.48	6.42	6.59	7.50
R. E. tire, 1½x½ and larger	4.145	4.17	4.17	4.13	4.13	4.07	4.13	4.07	4.24	5.15
R. E. tire (smaller)	4.295	4.32	4.32	4.28	4.28	4.22	4.28	4.22	4.39	5.30
Lt. rail joints, 8# (bar)	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.22
Lt. rail joints, 10# (bar)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.27
Lt. rail joints, 12# (bar)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.35
Lt. rail joints, 16# (bar)	0.36	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.37	0.42
Lt. rail joints, 20# (bar)	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.39	0.44
Lt. rail joints, 25# (bar)	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.47	0.53
Lt. rail joints, 30# (bar)	0.57	0.57	0.57	0.57	0.57	0.56	0.57	0.56	0.57	0.66

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Lt. rail joints, 35# (bar)	0.65	0.65	0.65	0.65	0.65	0.64	0.65	0.64	0.66	0.75
Lt. rail joints, 30# (angle)	0.75	0.75	0.75	0.75	0.75	0.74	0.75	0.74	0.76	0.87
Lt. rail joints, 35# (angle)	0.83	0.83	0.83	0.83	0.83	0.82	0.83	0.82	0.84	0.97
Lt. rail joints, 40# (angle)	1.08	1.09	1.08	1.08	1.08	1.07	1.08	1.07	1.10	1.27
Lt. rail joints, 45# (angle)	1.27	1.27	1.27	1.27	1.27	1.24	1.27	1.24	1.28	1.48
Lt. rails, 8#	4.315	4.33	4.34	4.305	4.265	4.23	4.27	4.25	4.355	5.385
Lt. rails, 12#	4.27	4.285	4.295	4.26	4.22	4.185	4.225	4.205	4.31	5.34
Lt. rails, 16 and 20#	4.225	4.24	4.25	4.215	4.175	4.14	4.18	4.16	4.265	5.295
Lt. rails, 25 to 45#	4.18	4.195	4.205	4.17	4.13	4.095	4.135	4.115	4.22	5.25
Barbed wire (galvanized)	5.595	5.62	5.62	5.58	5.58	5.52	5.58	5.52	5.69	6.60
Wire nails	4.245	4.27	4.27	4.23	4.23	4.17	4.23	4.17	4.35	5.25
Cut nails	5.745	5.77	5.77	5.73	5.73	5.67	5.73	5.67	5.84	6.75
Cold rolled strip	7.995	8.02	8.02	7.98	7.98	7.92	7.98	7.92	8.09	9.00
Steel pipe basing sizes, ¼" to 3", butt-welded, black	40%	40%	40%	41%	41%	41%	41%	41%	40%	30%
Merchant boiler tubes, lapwelded steel:										
1¾ to 2", O. D	+ 2%	+ 2%	+ 2%	+ 2%	+ 2%	+ 1%	+ 2%	+ 1%	+ 3%	+12%
2¼", O. D	− 3%	− 2%	− 2%	− 3%	− 3%	− 3%	− 3%	− 3%	− 2%	+ 8%
2½ to 3¼", O. D	− 9%	− 9%	− 9%	− 9%	− 9%	−10%	− 9%	−10%	− 8%	+10%
3½ to 13", O. D	−19%	−19%	−19%	−19%	−19%	−20%	−19%	−20%	−18%	− 9%
Merchant boiler tubes, seamless steel:										
1" and 1⅛", O. D	$370.00	$370.00	$370.00	$370.00	$370.00	$368.00	$370.00	$368.00	$372.00	$390.00
1¼", O. D	310.00	310.00	310.00	310.00	310.00	308.00	310.00	308.00	312.00	330.00
1⅜", O. D	300.00	300.00	300.00	300.00	300.00	298.00	300.00	298.00	302.00	320.00
1½ and 1¾", O. D	250.00	250.00	250.00	250.00	250.00	248.00	250.00	248.00	252.00	270.00
2 to 2½", O. D	220.00	220.00	220.00	220.00	220.00	218.00	220.00	218.00	222.00	240.00
2¾ to 3¾", O. D	210.00	210.00	210.00	210.00	210.00	208.00	210.00	208.00	212.00	230.00
4", O. D	230.00	230.00	230.00	230.00	230.00	228.00	230.00	228.00	232.00	250.00
4½ to 5", O. D	250.00	250.00	250.00	250.00	250.00	248.00	250.00	248.00	252.00	270.00
Merchant boiler tubes, charcoal iron:										
1¾", O. D	+50%	+50%	+50%	+50%	+50%	+49%	+50%	+49%	+51%	+60%
2 and 2¼", O. D	+38%	+38%	+38%	+37%	+37%	+37%	+37%	+37%	+39%	+48%
2½ and 2¾", O. D	+23%	+23%	+23%	+22%	+22%	+22%	+22%	+22%	+24%	+33%
3 and 3¼", O. D	+20%	+20%	+20%	+20%	+20%	+19%	+20%	+19%	+21%	+30%
3½ to 4½", O. D	+ 3%	+ 3%	+ 3%	+ 2%	+ 2%	+ 2%	+ 2%	+ 2%	+ 4%	+13%
Spring steel, railway, automobile, vehicle	$4.395	$4.42	$4.42	$4.38	$4.38	$4.32	$4.38	$4.32	$4.49	$5.40

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Steel Castings

Prices of Steel Castings recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Dec. 22, 1917; May 21, 1918, and Sept. 12, 1918:

Column Bases, Bridge Blocks and Shoes

When ordered in quantities as follows, from one pattern at one time:

Division of Weight	1 to 9	10 to 24	25 to 49	50 to 99	100-Over
501- 750 lb.	7.75c.	7.70c.	7.50c.	7.40c.	7.30c.
751- 1000 lb.	7.70c.	7.65c.	7.40c.	7.30c.	7.20c.
1001- 2000 lb.	7.65c.	7.50c.	7.30c.	7.20c.	7.15c.
2001- 3000 lb.	7.50c.	7.40c.	7.20c.	7.15c.	7.00c.
3001- 5000 lb.	7.40c.	7.30c.	7.15c		
5001-10000 lb.	7.30c.	7.15c.			
10001-20000 lb.	7.50c.	7.30c.			
20001-50000 lb.	7.70c.				

Add—Two dollars ($2.00) each is to be added for Test Bars in excess of two per heat.

Suitable pattern equipment to be furnished by the customer.

Boiler Castings and Fittings (Light Section)

Standard low pressure flange fittings and steam piping, headers, manifolds, crossovers, steam separators, steam traps, ammonia fittings of lighter section than standard thickness or more intricate than the regular run of fittings.

Division of Weight		Division of Weight	
1- 10 lb.	41.50c.	301- 500 lb.	17.30c.
11- 25 lb.	35.45c.	501-1000 lb.	15.50c.
26- 50 lb.	27.00c.	1001-2000 lb.	14.90c.
51-100 lb.	22.15c.	2001-3000 lb.	14.30c.
101-200 lb.	20.95c.	Over 3000 lb.	13.65c.
201-300 lb.	19.70c.		

Suitable pattern equipment to be furnished by the customer.

Boiler Castings and Fittings (Heavy Section)

Boiler saddles and cross boxes, nozzles, man and hand hole frames and covers, valve bodies and valve parts, flange fittings and steam piping of extra heavy or high pressure thickness, hydraulic fittings, ball and socket joints for dredges and dredge piping.

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Division of Weight		Division of Weight	
1- 10 lb.....	35.80c.	301- 500 lb.....	14.00c.
11- 25 lb.....	29.75c.	501-1000 lb.....	13.40c.
26- 50 lb.....	21.30c.	1001-2000 lb.....	12.80c.
51-100 lb.....	17.65c.	2001-3000 lb.....	12.20c.
101-200 lb.....	16.45c.	Over 3000 lb.....	11.60c.
201-300 lb.....	15.25c.		

Suitable pattern equipment to be furnished by the customer.

Flange Schedule

When ordered in quantities from one pattern at one time, as follows:

Division of Weight	1 to 49	50 to 100	101-Over
1- 10 lb.....	28.75c.	27.30c.	25.95c.
11- 25 lb.....	23.90c.	22.65c.	21.55c.
26- 50 lb.....	17.85c.	16.90c.	16.05c.
51-100 lb.....	15.45c.	14.65c.	13.90c.
101-200 lb.....	14.20c.	13.45c.	12.75c.
201-300 lb.....	13.00c.	12.30c.	11.65c.
301-500 lb.....	12.75c.	12.05c.	11.40c.
501-lb.-over.....	11.80c.	11.15c.	10.55c.

Suitable pattern equipment to be furnished by the customer.

Engine Castings

Division of Weight	Miscellaneous Castings	Gas Engine Cylinders		Chambered Pistons and Cylinder Heads	Flywheels, Segments and Hubs, Crank Discs, Crank Webs, and Counter Balances
		Cast in One Pce.	Cast in Two Pcs.		
1- 10 lb.	31.55c.	35.55c.	34.30c.	34.30c.	31.05c.
11- 25 lb.	23.30c.	27.30c.	26.05c.	26.05c.	22.80c.
26- 50 lb.	18.65c.	22.65c.	21.40c.	21.40c.	18.15c.
51- 100 lb.	15.00c.	19.00c.	17.75c.	17.75c.	14.50c.
101- 200 lb.	12.65c.	16.65c.	15.40c.	15.40c.	12.15c.
201- 300 lb.	11.70c.	15.70c.	14.45c.	14.45c.	11.20c.
301- 500 lb.	11.05c.	15.05c.	13.80c.	13.80c.	10.55c.
501-1000 lb.	10.30c.	14.30c.	13.05c.	13.05c.	9.80c.
1001-2500 lb.	9.65c.	13.65c.	12.40c.	12.40c.	9.15c.
2501-5000 lb.	9.10c.	13.10c.	11.85c.	11.85c.	8.60c.
Over 5000 lb.	8.90c.	12.90c.	11.65c.	11.65c.	8.40c.

For carbon over 0.40 add ½c. per pound to prices shown above.

Suitable pattern equipment to be furnished by the customer.

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Old Style Anchors

101- 250 lb.....	17.85c.	1001-3000 lb.....	11.80c.
251- 500 lb.....	14.20c.	3001 lb.-over.....	10.60c.
501-1000 lb.....	13.00c.		

For chemical or physical test, add ½c. per lb.
Other tests to be paid for by purchaser.
Suitable pattern equipment to be furnished by the customer.

Propeller Wheels

101- 300 lb.....	35.90c.	3001- 4000 lb..	14.15c.
301- 600 lb.....	28.65c.	4001- 4500 lb.....	13.85c.
601-1000 lb.....	21.40c.	4501- 7000 lb.....	13.25c.
1001-2000 lb.....	18.95c.	7001-10000 lb.....	12.30c.
2001-2500 lb.....	16.55c.	10001-12000 lb.....	11.70c.
2501-3000 lb.....	15.35c.	Over 12000 lb.....	11.10c.

Suitable pattern equipment to be furnished by the customer.

Cement Mill Castings (*Machinery Builders' Schedule*)

Riding rings and tires.....	3000 lb. and over.....	9.20c.
Riding rings and tires.....	Under 3000 lb. use misc. castings schedule below.	
Rollers	Under 500 lb. use misc. castings schedule below.	
Rollers	500 lb. and over.....	9.20c.
Gears and pinions.....	Use gear schedule.	

Miscellaneous Castings

Under 50 lb.....	18.90c.	501-1000 lb.....	10.75c.
51-100 lb.....	13.90c.	Over 1000 lb.....	9.90c.
101-500 lb.....	12.00c.		

Suitable pattern equipment to be furnished by the customer.

Cement Mill Castings (*Consumers' Schedule*)

Riding rings and tires.....	3000 lb. and over.....	9.20c.
Riding rings and tires.....	Under 3000 lb. use misc. castings schedule at top page 131.	
Rollers	Under 500 lb. use misc. castings schedule at top page 131.	
Rollers	500 lb. and over.....	9.20c.
Gears and pinions.....	Use gear schedule.	
Fan castings		16.35c.

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Miscellaneous Castings

Under 50 lb.....	21.30c.	201-600 lb.....	13.15c.
51-200 lb.....	15.35c.	601 lb.-over.....	10.70c.

Suitable pattern equipment to be furnished by the customer.

Gear Schedule

Gears, Pinions, Segments, Racks, Worms, Worm Wheels, Sprockets, Sheaves and Pulleys

When ordered in quantities from one pattern at one time as follows:

Division of Weight	1 to 49	50 to 99	100 and Over
1- 10 lb.....	30.20c.	25.60c.	21.05c.
11- 25 lb.....	22.00c.	18.65c.	15.30c.
26- 50 lb.....	18.00c.	15.25c.	12.50c.
51- 100 lb.....	13.90c.	11.75c.	
101- 200 lb.....	11.80c.		
201- 300 lb.....	10.75c.		
301- 500 lb.....	9.75c.		
501-1000 lb.....	9.20c.		
1001-2500 lb.....	8.80c.		
2501-5000 lb.....	8.35c.		
Over 5000 lb.....	8.05c.		

For carbon over 0.40, add ½c. per pound. For physical tests, add ½c. per pound.

For other alloys, add same as on rolls.

Above prices do not cover machine molded gears.

Suitable pattern equipment to be furnished by the customer.

Crane Castings

	Per Pound		Per Pound
1- 10 lb.....	31.85c.	301- 500 lb.....	10.65c.
11- 25 lb.....	23.40c.	501-1000 lb.....	10.10c.
26- 50 lb.....	19.20c.	1001-2500 lb.....	9.70c.
51-100 lb.....	14.90c.	2501-5000 lb.....	9.20c.
101-200 lb.....	12.80c.	Over 5000 lb.....	8.95c.
201-300 lb.....	11.80c.		

For end carriages and trucks, add .65c. to above prices.

For trolley frames, motor supports, gear covers, bumper hoods, stripper rams and sleeves, charging bar supports, center stem castings, hollow shafts and stems, upper and lower guide brackets and ram frames, peels and peel heads and other intricate castings, add 1.50c. to above prices.

Long Hollow Rack Castings

13.45c. per pound

Suitable pattern equipment to be furnished by the custome-

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Mine and Industrial Car Castings

When purchased in quantities as follows from one pattern at one time.

Division of Weight	Under 100 Castings	100-499 Castings	500 Castings and over
1- 10 lb.....	21.70c.	19.50c.	18.60c.
11- 25 lb.....	15.35c.	14.75c.	14.00c.
26- 50 lb.....	10.55c.	10.15c.	9.75c.
51-100 lb.....	10.00c.	9.70c.	9.55c.
Over 100 lb.....	9.55c.	9.30c.	9.10c.
Link and pin draw heads.	9.10c.	8.70c.	8.20c.

Add ½c. per pound to above prices for cradles, column guides, rockers and pedestals.

Suitable pattern equipment to be furnished by the customer.

Mine and Industrial Car Wheels

On contracts covering not less than 500 wheels per month and on single orders for 500 wheels or more, use the following prices:

Division of Weight	Single Flange or Web Plate Wheels with Plain Hub	Spoke Wheels	Double Flange, Double Tread, Straight or Flat Tread or Self-Oiler Wheels
10- 25 lb.....	10.60c.	10.85c.	11.35c.
26- 40 lb.....	9.45c.	9.70c.	10.20c.
41- 75 lb.....	8.50c.	8.75c.	9.25c.
76-100 lb.....	8.05c.	8.30c.	8.80c.
Over 100 lb...	7.70c.	7.95c.	8.45c.

Suitable pattern equipment to be furnished by the customer.

Domestic Car Castings

When purchased in quantities as follows, from one pattern at one time:

Name of Castings or Division of Weight	Under 50 Cstgs.	50-249 Castings	250-499 Castings	500 Cstgs. and Over
Bolster center fillers..	11.25c.	9.95c.	9.05c.	8.60c.
Center plates	10.25c.	9.25c.	8.25c.	7.95c.
Draft lugs	10.25c.	8.95c.	8.20c.	7.80c.
Journal box wedges..	13.25c.	11.60c.	10.60c.	10.05c.
Push pole pockets....	10.25c.	8.95c.	8.20c.	7.80c.
Roping and jacking castings	13.25c.	11.60c.	10.60c.	10.05c.
Side bearings	13.25c.	11.60c.	10.60c.	10.05c.
Striking castings	10.25c.	9.25c.	8.25c.	7.95c.
Other cstgs, 1- 5 lb..	22.75c.	20.05c.	18.15c.	17.40c.
Other cstgs, 6-10 lb..	18.75c.	16.55c.	15.05c.	14.25c.
Other cstgs, 11-25 lb..	15.40c.	13.55c.	12.25c	11.75c.
Other cstgs, 26-50 lb..	12.75c.	11.25c.	10.25c.	9.75c.
Other cstgs over 50 lb.	10.75c.	9.40c.	8.60c.	8.15c.

Patterns extra, unless 500 or more castings are ordered from one pattern at one time.

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Foreign Car Castings

Buffer castings	10.95c.
Buffer housings	11.60c.
Other castings, 1- 5 lb	20.60c.
Other castings, 6-10 lb	18.95c.
Other castings, 11-15 lb	17.30c.
Other castings, 16-25 lb	14.95c.
Other castings, 26-50 lb	13.30c.
Other castings, over 50 lb	11.60c.

Note—If center plates and side bearings of American design are required, use domestic car prices for these items.

Patterns extra, unless 500 or more castings are ordered from one pattern at one time.

Miscellaneous Railroad and Locomotive Castings

Driving wheel centers	7.70c.
Engine frames	8.20c.
Miscellaneous castings, under 5 lb	19.70c.
Miscellaneous castings, 5- 10 lb	17.70c.
Miscellaneous castings, 11- 25 lb	14.20c.
Miscellaneous castings, 26- 50 lb	12.20c.
Miscellaneous castings, 51- 100 lb	10.70c.
Miscellaneous castings, 101- 250 lb	10.20c.
Miscellaneous castings, 251- 500 lb	9.70c.
Miscellaneous castings, 501-1000 lb	9.20c.
Miscellaneous castings, over 1000 lb	8.70c.

Note—For engine frames weighing less than 2000 lb. each add 3.00c. per lb.

Suitable pattern equipment, etc., to be furnished by the customer.

Rail or Step Joint Castings

Rail or step joint castings, in any quantity ..... 10.50c.

Suitable pattern equipment to be furnished by the customer.

Refractory and Brick Yard Castings

Scrapers and toggle plates	13.05c.
Pan rims	11.80c.
Roller tires	10.75c.
Bottom plates	10.75c.
Swinging and stationary dies	11.15c.
Outside circle plates	11.80c.
Inside circle plates	11.80c.
Other castings, under 10 lb	29.85c.
Other castings, 11-25 lb	25.55c.
Other castings, 26-50 lb	23.00c.
Other castings, 51-100 lb	17.55c.
Other castings, 101-200 lb	15.80c.
Other castings, 201-500 lb	13.00c.
Other castings, 501-1000 lb	12.20c.
Other castings, 1001-2500 lb	11.70c.
Other castings, over 2500 lb	10.90c.

Suitable pattern equipment to be furnished by the customer

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Jaw and Gyratory Crusher Castings

Under 25 lb	31.45c.	401-500 lb	11.40c.
26- 50 lb	21.55c.	501-750 lb	10.60c.
51- 75 lb	18.65c.	751-1000 lb	10.20c.
76-100 lb	15.70c.	1001-2000 lb	9.30c.
101-150 lb	15.00c.	2001-3000 lb	9.00c.
151-200 lb	14.25c.	3001-5000 lb	8.65c.
201-300 lb	12.95c.	5001-10000 lb	7.85c.
301-400 lb	12.15c.	Over 10000 lb	7.55c.

For jaw crusher frames made in one piece and gyratory crusher housings, add 20% to above schedule.

For gears, bushings and sleeve castings, use gear schedule. Suitable pattern equipment to be furnished by the customer

Road and Mining Machinery Castings

Under 25 lb	34.50c.	401-500 lb	12.45c.
26-50 lb	23.60c.	501-750 lb	11.60c.
51-75 lb	20.40c.	751-1000 lb	11.05c.
76-100 lb	17.25c.	1001-2000 lb	10.45c.
101-150 lb	16.05c.	2001-3000 lb	9.75c.
151-200 lb	15.60c.	3001-5000 lb	9.25c.
201-300 lb	14.15c.	5001-10000 lb	8.55c.
301-400 lb	13.25c.	Over 10000 lb	8.15c.

For gears, bushings and sleeve castings, use gear schedule. Suitable pattern equipment to be furnished by the customer.

Alloy Steel Castings

For nickel or other alloy castings an extra charge will be made based on amount of alloy and cost of same.

Rolling Mill Steel Castings

The following prices for rolling mill castings are subject to discounts shown below:

.25c. per lb., under 750 tons per year
.45c. per lb., 750-2000 tons per year
.65c. per lb., 2000-7500 tons per year
.75c. per lb., over 7500 tons per year

except that annealing boxes and annealing bottoms, charging boxes and charging box heads and ends are subject to a discount of only .25c. per lb. when total requirements amount to less than 7500 tons, and only .35c. per lb. when total requirements amount to more than 7500 tons.

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Steel Castings for Rolling Mills and Steel Works

Rolls (Unfinished)

101 to 500 lb. inclusive, per lb.....11.80c.
Over 500 to 1000 lb. inclusive, per lb.....10.70c.
Over 1000 to 2500 lb. inclusive, per lb.....9.70c.
Over 2500 to 5000 lb. inclusive, per lb..... 8.85c.
Over 5000 to 10000 lb. inclusive, per lb..... 7.95c.
Over 10000 to 50000 lb. inclusive, per lb..... 7.70c.
Over 50000 to 100000 lb. inclusive, per lb..... 8.70c.

Pinions (Unfinished)

101 to 500 lb. inclusive, per lb.....13.55c.
Over 500 to 1000 lb. inclusive, per lb.....12.05c.
Over 1000 to 2500 lb. inclusive, per lb.....10.80c.
Over 2500 to 5000 lb. inclusive, per lb..... 9.55c.
Over 5000 to 10000 lb. inclusive, per lb..... 8.60c.
Over 10000 to 50000 lb. inclusive, per lb..... 8.05c.
Over 50000 to 100000 lb. inclusive, per lb..... 8.95c.

The above prices of rolls and pinions are for .50 carbon or under. For carbon over .50 and under .70 add ¼c. to above prices; for carbon .70 and under 1.50 add ½c. to above prices; for carbon 1.50 and over add ¾c. to above prices. Extra for 2½% to 3½% of nickel, 3½c. per lb. Extra for approximately .18% vanadium, 2½c. per lb. No extra for annealing rolls and pinions.

Annealing Boxes and Pots (Unfinished)

Boxes 1 in. thick and over, per lb..... 8.35c.
Boxes less than 1 in. thick, per lb.....10.40c.

When steam test is required add ¼c. per lb.

Annealing Bottoms

72 in. inside length and under, per lb..... 7.60c.
Over 72 in. inside length, per lb..... 6.80c.

Charging Boxes

Charging boxes, per lb..... 7.45c.

Charging Box Heads and Ends

In lots of 50 to 100 from one pattern:
With rivet holes cored, per lb..... 9.65c.
With rivet holes not cored, per lb..... 9.10c.
In lots over 100 from one pattern:
With rivet holes cored, per lb.....9.25c.
With rivet holes not cored, per lb.....8.60c.

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Rolling Mill and Steel Works Miscellaneous Castings

Not Otherwise Specified on this List

1 to 25 lb. inclusive, per lb.....20.00c.
Over 25 to 50 lb. inclusive, per lb.....15.35c.
Over 50 to 100 lb. inclusive, per lb.....11.65c.
Over 100 to 250 lb. inclusive, per lb.....10.70c.
Over 250 to 500 lb. inclusive, per lb.....10.00c.
Over 500 to 1000 lb. inclusive, per lb..... 8.70c.
Over 1000 to 2500 lb. inclusive, per lb..... 8.30c.
Over 2500 to 5000 lb. inclusive, per lb..... 8.10c.
Over 5000 lb., per lb..... 7.70c.

Add 20 per cent to above prices for hollow and disc table rollers and cylinders.

Add 1c. per lb. for all castings with water circulating pipes. For carbon over .40 add ¼c. per lb.

If alloys are required, extra to be charged same as on rolls.

Coupling Boxes, Spindles, Roll Housings, Pinion Housings and Anvil Blocks

1 to 25 lb. inclusive, per lb.....20.05c.
Over 25 to 50 lb. inclusive, per lb.....15.40c.
Over 50 to 100 lb. inclusive, per lb.....11.70c.
Over 100 to 250 lb. inclusive, per lb..... 9.40c.
Over 250 to 500 lb. inclusive, per lb..... 8.60c.
Over 500 to 1000 lb. inclusive, per lb..... 7.75c.
Over 1000 to 2500 lb. inclusive, per lb..... 7.70c.
Over 2500 to 5000 lb. inclusive, per lb..... 7.55c.
Over 5000 to 15000 lb. inclusive, per lb..... 7.50c.
Over 15000 to 50000 lb. inclusive, per lb..... 7.35c.
Over 50000 to 100000 lb. inclusive, per lb..... 7.65c.
Over 100000 lb., per lb.....8.60c.

Gears, Gear Blanks, Gear Segments, Racks, Worms, Worm Wheels, Sprockets, Sheaves and Pulleys

1 to 10 lb. inclusive, per lb.....30.45c.
Over 10 to 25 lb. inclusive, per lb.....22.25c.
Over 25 to 50 lb. inclusive, per lb.....18.25c.
Over 50 to 100 lb. inclusive, per lb.....14.15c.
Over 100 to 200 lb. inclusive, per lb.....12.05c.
Over 200 to 300 lb. inclusive, per lb.....11.00c.
Over 300 to 500 lb. inclusive, per lb.....10.00c.
Over 500 to 1000 lb. inclusive, per lb..... 9.45c.
Over 1000 to 2500 lb. inclusive, per lb..... 9.05c.
Over 2500 to 5000 lb. inclusive, per lb..... 8.60c.
Over 5000 lb., per lb..... 8.30c.

Add ½c. per lb. for carbon over .40 or when chemical or physical tests are required. Above prices are for gears made from patterns furnished by purchaser. Additional charge to be made for machine moulded gears. Railway motor gears not included in above schedule.

If alloys are required, extra to be charged same as on rolls.

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Steel Castings for Blast Furnaces

Bells, Hoppers, Hopper Extensions, Lip Rings, Tuyere Jackets, Hot Metal or Slag Pots and Rings

Bells, hoppers, hopper extensions, lip rings, tuyere jackets, hot metal or slag pots and rings, per lb..... 8.55c.

Valve Bodies, Tuyere Stocks, Pipes, Nozzles and Saddles

50 to 500 lb. inclusive, per lb.....12.10c.
Over 500 to 1000 lb. inclusive, per lb.....10.25c.
Over 1000 lb., per lb..... 9.35c.

Hearth Jackets or Bosh Plates

Under 5000 lb., per lb..... 7.70c.
Over 5000 lb., per lb..... 7.65c.

Miscellaneous Blast Furnace Castings

Not Specified Otherwise on this List

1 to 25 lb. inclusive, per lb.....20.00c.
Over 25 to 50 lb. inclusive, per lb.....15.35c.
Over 50 to 100 lb. inclusive, per lb.....11.65c.
Over 100 to 250 lb. inclusive, per lb.....10.70c.
Over 250 to 500 lb. inclusive, per lb.....10.00c.
Over 500 to 1000 lb. inclusive, per lb..... 8.70c.
Over 1000 to 2500 lb. inclusive, per lb..... 8.30c.
Over 2500 to 5000 lb. inclusive, per lb..... 8.10c.
Over 5000 lb., per lb..... 7.70c.

Add 1c. per lb. for all castings with water circulating pipes.

For carbon over .40 add ¼c. per lb.

If alloys are required, extra to be charged same as on rolls.

Deliveries

The foregoing schedules (page 128 to 137 inclusive) cover the castings named therein, in the rough, f.o.b. maker's works, with published rate of freight allowed to freight station of purchasers, other than railroads, located within base territory; and in case of purchases by railroads, with published rate of freight allowed to nearest point on line of such railroad within base territory. On all deliveries made outside of base territory freight is allowed to oundary line only, excess to be paid by purchaser.

Base territory is defined to be within a line drawn from Boston, Mass., through Schenectady, Rochester and Niagara Falls, N. Y.; Detroit, Mich.; Duluth, Minn.; St. Louis, Mo.; Cincinnati, Ohio; Washington, D. C.; Cape May, N. J., and all other Atlantic Ocean terminal points between Cape May and Boston.

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Bolsters (Body or Truck)

Freight Cars and Locomotive Tenders
F. O. B. Builders' Works or Nearest Point on Railroad in Base Territory

Freight Cars	Bolsters—Body or Truck			
	1 to 10	11 to 100	101 to 199	200 and Over
	Per Car	Per Car	Per Car	Per Car
30-ton	$116.00	$113.00	$97.00	$87.50
40-ton	126.00	123.00	109.00	99.50
50-ton	136.00	133.00	119.00	108.50
57½-ton	146.00	143.00	127.00	118.50
62½-ton	156.00	153.00	137.00	130.00
70-ton	176.00	175.00	174.00	165.50

Tenders, all capacities, $9.50 per 100 lb.

In case of any capacity car other than those shown above, price for the next succeeding higher capacity will apply.

Note 1.—For f.o.b. and delivery points see page 142.

Note 2.—The above prices on body and truck bolsters apply to bolsters of usual dimensions **without** center plates, or with **integral** center plates, ordinary friction side bearings, column guides and dead lever lugs.

Note 3.—Body bolsters of unusual designs exceeding the weight of standard designs will take an extra charge to cover the excess weight.

Note 4.—**Separable Center Plates.** If furnished free of charge f.o.b. manufacturer's foundry, separable center plates will be riveted on bolsters at an additional charge of $2.00 per car.

Note 5.—**Side Bearing Wearing Plates or Patented Side Bearings.** If furnished free of charge f.o.b. manufacturer's foundry, side bearing wearing plates or patented side bearings will be riveted on bolsters at an additional charge of $2.00 per car per item.

Note 6.—The above prices do not include any drilling or machine work.

Note 7.—For freight cars, where new patterns are required for bolsters for orders of less than 100 castings from any one pattern, an extra charge of $200.00 for each of the patterns shall be made.

Note 8.—For locomotive tenders, where new patterns are required for bolsters for orders of 10 locomotives or less from any one pattern, an extra charge of $200.00 for each of the patterns shall be made.

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Truck Side Frames, Freight Cars and Locomotive Tenders

F. O. B. Builders' Works or Nearest Point on Railroad in Base Territory

Freight Cars	Side Frames—Andrews or Pedestal		
	From 1 to 10	11 to 100	101 to 399
	Per Car	Per Car	Per Car
30-ton	$150.00	$147.00	$132.00
40-ton	160.00	157.00	144.00
50-ton	170.00	167.00	160.00
57½-ton	180.00	179.00	172.00
62½-ton	198.00	195.00	188.00
70-ton	218.00	217.00	208.00

Freight Cars	Andrews	Pedestal
	Per Car	Per Car
400 and over, 30-ton	$118.50	$124.50
40-ton	129.50	135.50
50-ton	139.50	151.50
57½-ton	154.50	166.50
62½-ton	170 00	181.00
70-ton	175.50	201.50

Tender Frames

	Andrews or Pedestal regular design
Less than 50-ton capacity	$51.00 per frame
50-ton and ess than 70-ton capacity	66.00
70-ton capacity	71.00

In case of any capacity car other than those shown above, prices for the next succeeding higher capacity will apply.

Note 1.—For f.o.b. and delivery points, see page 142.

Note 2.—The above prices on frames cover castings only and of usual dimensions, and do not include journal boxes, bolts, spring planks, tie bars, rivets, wearing plates, loose brake hanger pins, fastenings, etc.

Note 3.—The above prices do not include any drilling or machine work; nor do they cover pedestal frames employing a binder for connecting jaws underneath the journal boxes.

Note 4.—For freight cars, when new patterns are required for frames, for orders of less than 100 castings from any one pattern, an extra charge of $200.00 for each of the patterns shall be made.

Note 5.—For locomotive tenders, when new patterns are required for frames, for orders of ten locomotives or less from any one pattern, an extra charge of $200.00 for each of the patterns shall be made.

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List Prices to Car and Locomotive Builders for Estimating Purposes

Capacity in Tons	Andrews or Pedestal Side Frames	Truck or Body Bolsters
	Per Car	Per Car
30-ton	$155.00	$120.00
40-ton	165.00	130.00
50-ton	175.00	140.00
55-57½-ton	185.00	150.00
60-62½-ton	205.00	160.00
65-70-ton	225.00	180.00
Locomotive tenders, all capacities	Per Tender $300.00	Per Tender $300.00

Note 1.—For f.o.b. and delivery points see page 142.

Note 2.—For locomotive tenders, where new patterns are required for either frames or bolsters, for orders of ten locomotives or less, an extra charge of $200.00 each for the patterns shall be made. Prices do not include any drilling or machine work, nor do they cover pedestal frames employing a binder for connecting the jaws underneath the journal boxes.

Note 3.—For freight cars, where new patterns are required for either frames or bolsters, for orders of less than 100 castings from any one pattern, an additional charge of $200.00 each shall be made. Prices do not include any drilling or machine work.

Note 4.—The above prices on side frames cover castings only and do not include journal box bolts, tie bars, rivets, loose brake hanger pins, fastenings, etc.

Note 5.—The above prices on body or truck bolsters apply to bolsters **without** center plates, or with **integral** center plates, ordinary friction side bearings, column guides and dead lever lugs.

Note 6.—**Separable Center Plates.** If furnished free of charge f.o.b. manufacturer's foundry, separable center plates will be riveted to the bolster at an additional charge of $2.00 per car.

Note 7.—**Side Bearing Wearing Plates or Patented Side Bearings.** If furnished free of charge f.o.b. manufacturer's foundry, side bearing wearing plates or patented side bearings will be riveted to the bolsters at an additional charge of $2.00 per car per item.

Prices of M. C. B. Couplers

M. C. B. couplers with heads measuring not more than 9¼ in. from the pulling face of the knuckle, when closed, to the horn, shanks not more than 21¼ in. long and fitted with 9 in. face knuckles.

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Freight Equipment Couplers

Old M. C. B. standard type top operating couplers without uncoupling chains:

5 in. x 5 in. shanks with 6½ in. butt ends, per pair....$38.25
5 in. x 7 in. shanks with 6½ in. butt ends, per pair.... 39.05

New M. C. B. standard top operating type "D" couplers with regular dimensions of head, shanks not more than 21¼ in. long, fitted with 9 in. face-knuckles and without uncoupling chains:

6 in. x 8 in. shanks with 6½ in. butt ends, per pair....$51.00
5 in. x 7 in. shanks with 6½ in. butt ends, per pair.... 50.20

If top operating couplers are required fitted with uncoupling chains, there will be an additional charge of $1.00 per pair to the above prices.

If couplers are required with butt ends more than 6½ in., there will be an additional charge of $1.30 per pair to the above prices.

If couplers are required with shanks more than 21¼ in. long, there will be an additional charge to the above prices of 60 cents per pair for each additional inch or fraction thereof.

If couplers are required with wider face knuckles than 9 in., there will be an additional charge to the above prices of 40 cents per pair for each additional inch or fraction thereof.

If couplers are required with special reinforcement around key slot heavier than shown on M. C. B. Standard Sheet No. 23, there will be an additional charge of $1.00 per pair to the above prices.

If couplers are required fitted for side or bottom operation, there will be an additional charge of $2.00 per pair to the above prices.

Passenger Equipment Couplers

Passenger equipment couplers, old M. C. B. standard type, measuring not more than 4 ft. from the pulling face of the knuckle, when closed, to the end of the shank, fitted with 9 in. face knuckle, $28.50 each.

If passenger equipment couplers are required measuring more than 4 ft. from the pulling face of the knuckle, when closed, to the end of the shank, there will be an additional charge to the above price of 40 cents each for each additional inch or fraction thereof.

If passenger equipment couplers are required with wider face knuckles than 9 in., there will be an additional charge to the above price of 20 cents each for each additional inch or fraction thereof.

If passenger equipment couplers are required having butt ends with anti-spread lugs for quadruple shear feature, there will be an additional charge of $3.00 per coupler.

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Locomotive Tender Couplers

Short shank swing head locomotive couplers and special tender couplers, old M. C. B. standard type, fitted with 11 in. face knuckles, and without uncoupling chains, $23.80 each.

New M. C. B. standard type "D" short shank swing head locomotive couplers and special tender couplers, fitted with 11 in. face knuckles and without uncoupling chains, $31.30 each.

Add for chains, 50 cents each.

If locomotive couplers are required with wider face knuckles than 11 in., there will be an additional charge to the above prices of 20 cents each for each additional inch or fraction thereof.

If locomotive tender couplers are required with shanks more than 21¼ in. long, there will be an additional charge to the above prices of 40 cents each for each additional inch or fraction thereof.

If, in order to secure the clearances now required by the Interstate Commerce Commission, couplers of old M. C. B. standard type are required with heads measuring more than 9¼ in. from the pulling face of the knuckle, when closed, to the horn, the following additional charges to the foregoing prices will be made:

Over 9¼ in.,	but not more than 11½ in.	$3.00 per pair
11½ in.,	but not more than 14 in.	6.50
14 in.,	but not more than 15¼ in.	7.50

F.o.b. and Delivery Points
Side Frames, Bolsters and Couplers

The above named prices on side frames, bolsters and couplers are f.o.b. cars, maker's works, with freight allowed at carload rate as follows: In the case of purchase by railroads, to the nearest point on such railroad, located in the States of New York, Pennsylvania, New Jersey, Delaware, Maryland, Virginia, West Virginia, Kentucky, Ohio, Indiana, Illinois, Michigan (Southern Peninsula only) and the City of St. Louis, Mo.; in the case of purchase by any car or locomotive builder, to the plant of purchaser, if located in either of the above mentioned States, or in St. Louis, Mo., or in St. Charles, Mo., or in Bettendorf, Iowa, and in the case of the materials being purchased for export, to any export point in the above mentioned States.

For deliveries in the United States outside of the above mentioned territory, add to the prices shown above, freight at carload rate from Columbus, Ohio, to the nearest point on railroad, or to the plant of any car or locomotive builder, or to any export point, as the case may be, less 20c. per 100 lb. The resulting price will be the price f.o.b. cars, maker's works, for said delivery; from which price deduction will be allowed for freight at carload rate to nearest point on railroad, or to plant of car or locomotive builder, or to point of export, as the case may be.

If the freight rate is advanced during the period in which these prices are effective, the amount of such advance will be added to the prices as given.

All the above prices apply only to steel castings of the general type, design or specification mentioned.

Prices for special designs or specifications will be subject to negotiation.

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Iron Rolls.

Prices for condensed grain (sand) and chilled iron rolls recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Jan. 7, 1918.

The following prices are subject to the usual customs of the trade, as regards terms, guarantees, adjustments, replacements, etc. The delivery point is f.o.b. maker's works, but the prices include an allowance for actual freight, in accordance with published freight rates, to the freight station of purchaser, provided same does not exceed 20c. per 100 lb. All freight in excess of 20c. per 100 lb. to be paid by purchaser. The freight allowance does not include any additional charges at destination (for switching service, spotting of cars, drayage, cartage, transfer, ferry car service) or any other expense over and above that covered by the published freight rate applying to the regular delivery station.

Plain Chilled Rolls

Under 8 in. diameter	10.00c. per lb.
8 in. diameter and under 10 in.	8.75c. per lb.
10 in. diameter and under 13 in.	7.95c. per lb
13 in. diameter and under 21 in.	7.15c. per lb.
21 in. diameter and under 24 in.	6.15c. per lb.
24 in. diameter and under 33 in., under 91 in. long.	5.70c. per lb.
24 in. diameter and under 33 in., 91 in. long and over	6.15c. per lb.
33 in. diameter and under 35 in.	6.15c. per lb.
35 in. diameter and under 39 in.	7.20c. per lb.
39 in. diameter and under 43 in.	8.30c. per lb.
43 in. diameter and under 45 in.	10.25c. per lb.

Rail rolls, 20 in. diameter and over, with open chilled finishing pass on one or both ends, 7.15c. per lb.

Rail rolls, under 20 in. diameter, with open chilled pass on one or both ends, 7.45c. per lb.

Plain rolls, part chilled, same price as chilled rolls of like diameter.

Plain chilled rolls requiring over 1½ in. chill, ¼c. additional, and at purchaser's risk of breakage, regardless of excessive depth of chill.

Sand rolls, with but one or two plain chilled passes, not less than plain chilled rolls of like diameter.

All other rolls having enclosed chilled passes or grooves, not less than 1.7c. per lb. higher than plain chilled rolls of same diameter; chills for making same to be charged for at not over 10 per cent above cost, and when paid for may be delivered to customers on demand.

Gap rolls for shovel mills, ½c. per lb. additional.

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Sand Rolls

Under 10 in diameter	7.95c. per lb
10 in. diameter and under 13 in	7.15c. per lb.
13 in. diameter and under 21 in	5.90c. per lb.
21 in. diameter and under 34 in	5.50c. per lb.
34 in. diameter and over	5.90c. per lb.

Iron Pinions

Under 10 in. diameter	8.35c. per lb.
10 in. diameter and under 13 in	7.55c. per lb.
13 in. diameter and under 21 in	6.35c. per lb.
21 in. diameter and over	5.90c. per lb.

Boxing or crating—Two per cent (2%) of face of bill additional.

The above prices for rolls are subject to a discount of ¼c. per lb. where the purchaser sells and ships to the maker the broken and worn out scrap rolls and pinions produced in operation of purchaser's mills, not to exceed 70 per cent in weight of new rolls received, at not over $30 per ton of 2240 lb. in trade account, f.o.b. seller's mill. Any excess freight over $2.50 per ton, necessary to transport such scrap rolls and pinions to works of maker, to be paid by the seller of the scrap rolls and pinions.

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Malleable Castings

Base prices and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, July 16, 1918:

Quantity Ordered	Freight Car Castings				
	Under 25	26 to 100	101 to 250	251 to 500	Over 500
Draft lugs	.0690 a lb.	.0600 a lb.	.0735 a lb.	.0715 a lb.	.0700 a lb.
J. B. wedges	.0690 a lb.	.0600 a lb.	.0735 a lb.	.0715 a lb.	.0700 a lb.
Spring seats	.0690 a lb.	.0600 a lb.	.0735 a lb.	.0715 a lb.	.0700 a lb.
Striking plates	.0690 a lb.	.0600 a lb.	.0735 a lb.	.0715 a lb.	.0700 a lb.
Truck columns	.0690 a lb.	.0600 a lb.	.0735 a lb.	.0715 a lb.	.0700 a lb.
Rail braces	.0690 a lb.	.0600 a lb.	.0735 a lb.	.0715 a lb.	.0700 a lb.
Center plates	.0900 a lb.	.0810 a lb.	.0740 a lb.	.0725 a lb.	.0710 a lb.
Center plate supports	.0900 a lb.	.0810 a lb.	.0740 a lb.	.0725 a lb.	.0710 a lb.
Center sill separators	.0900 a lb.	.0810 a lb.	.0740 a lb.	.0725 a lb.	.0710 a lb.
Coupler carriers	.0900 a lb.	.0810 a lb.	.0740 a lb.	.0725 a lb.	.0710 a lb.
Push pole pockets	.0900 a lb.	.0810 a lb.	.0740 a lb.	.0725 a lb.	.0710 a lb.
Side bearings	.0900 a lb.	.0810 a lb.	.0740 a lb.	.0725 a lb.	.0710 a lb.
Back stop castings	.0905 a lb.	.0815 a lb.	.0750 a lb.	.0735 a lb.	.0720 a lb.
Bolster center fillers	.0935 a lb.	.0845 a lb.	.0775 a lb.	.0760 a lb.	.0745 a lb.

All Other Miscellaneous Malleable Freight Car Castings

Quantity	1 to 5 Pcs.	6 to 25 Pcs.	26 to 100 Pcs.	101 to 250 Pcs.	251 to 500 Pcs.	Over 500 Pcs
Under 2 lbs.	.2625 lb.	.2125 lb.	.1700 lb.	.1250 lb.	.1100 lb.	.1025 lb.
2 to 7 lbs.	.2125 lb.	.1700 lb.	.1225 lb.	.1025 lb.	.0975 lb.	.0925 lb.
7 to 15 lbs.	.1475 lb.	.1150 lb.	.1025 lb.	.0925 lb.	.0875 lb.	.0850 lb.
15 to 25 lbs.	.1225 lb.	.1075 lb.	.0975 ib.	.0875 lb.	.0825 lb.	.0800 lb.
Over 25 lbs.	.1150 lb.	.1025 lb.	.0900 lb.	.0850 lb.	.0800 lb.	.0775 lb.

On miscellaneous requisitions above prices are f.o.b. foundry.

On car orders, above prices are delivered reasonable destination for lots of 200 cars or over.

Any pattern equipment necessary to be furnished by or at the expense of customer, unless tonnage involved will warrant absorption of this expense.

Any castings of intricate design or necessarily of very light section will be subject to special negotiation.

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Tool Steel

Base prices and extras recommended by the Committee on Steel and Steel Products of the American Iron and Steel Institute, Jan. 7, 1918.

All prices f.o.b. point of shipment, and net without discount.

High Speed Tool Steel

Base prices:	Mill shipments	Shipments from makers' warehouse stocks
High speed steel.....	$2.00 per lb.	$2.01 per lb.
Tungsten finishing steel....	0.65 per lb.	0.66 per lb.

Subject to established customs of trade, and with following extras:

All dimensions inclusive. Intermediate sizes take the next higher extra.

Base sizes—Round, square and octagon, ⅝ in. to 2 in. inclusive; flat, ⅝ in. to 2 in. thick by ⅝ in. to 2 in. wide.

EXTRA SIZES

Round, square and octagon

Inches	Extra per lb. Cents	Inches	Extra per lb. Cents
9/16 to ½.....	2.0	3⅝ to 4.....	3.5
7/16 to ⅝.....	3.5	4⅛ to 4½.....	4.0
5/16 to 11/32.....	6.0	4⅝ to 5.....	4.5
¼ to 9/32.....	8.5	5⅛ to 5½.....	5.0
2⅛ to 2½.....	2.0	5⅝ to 6.....	5.5
2⅝ to 3.....	2.5	6⅛ to 6½.....	6.0
3⅛ to 3½.....	3.0	6⅝ to 7.....	6.5

EXTRA SIZES

Flat

Inches	Extra per lb. Cents	Inches	Extra per lb. Cents
⅛ x 3/16.....	40.0	⅝ x 1⅝ to 5.....	2.5
⅛ x ¼.....	30.0	7/16 x ½ to 1.....	3.0
⅛ x 5/16.....	20.0	7/16 x 1⅛ to 5½.....	2.5
⅛ x ⅝ to 2.....	14.0	½ x ⅝ to 1.....	2.5
3/16 x ¼ to 3.....	14.0	½ x 1⅛ to 6.....	2.0
¼ x 5/16 to ½.....	8.0	9/16 x ⅝ to 1.....	2.5
¼ x ⅝ to 1.....	5.0	9/16 x 1⅛ to 6.....	2.0
¼ x 1⅛ to 4.....	3.0	⅝ to 2 x ⅝ to 2.....	0.0
5/16 x ⅜ to ⅝.....	5.0	⅝ to 2 x 2⅛ to 4.....	2.0
5/16 x ¾ to 1.....	3.5	⅝ to 2 x 4⅛ to 7.....	4.0
5/16 x 1⅛ to 4½.....	3.0	2⅛ to 3 x 2⅛ to 4.....	2.0
⅜ x 7/16 to ¾.....	3.0	2⅛ to 3 x 4⅛ to 7.....	4.0
⅜ x ⅞ to 1½.....	3.0		

Annealing, 2c. per lb. extra.

Bevels, same classification as flats, plus 10c. per lb. for shape.

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CUTTING TO SPECIFIED SINGLE AND MULTIPLE LENGTHS

	Per lb. Cents.
24 inches and over	1.0
18 inches to 23 15/16 inches	2.0
12 inches to 17 15/16 inches	3.0
6 inches to 11 15/16 inches	4.0

Less than six inches—Special Price.

FORGED DISCS	Extra per lb. Cents.
Weighing above 25 pounds	6
Weighing 15 to 25 pounds	10
Weighing 10 to 15 pounds	12
Weighing 7½ to 10 pounds	14
Weighing 5 to 7½ pounds	16
Weighing 3 to 5 pounds	18
Weighing 2 to 3 pounds	22
Weighing 1 to 2 pounds	24
Annealing	2c. per lb. extra

FORGED DIE BLOCKS	Extra per lb. Cents.
Weighing above 25 pounds	4
Weighing 15 to 25 pounds	6
Weighing 10 to 15 pounds	10
Weighing 7½ to 10 pounds	14
Weighing 5 to 7½ pounds	16
Weighing 3 to 5 pounds	18
Weighing 2 to 3 pounds	22
Weighing 1 to 2 pounds	24
Annealing	2c. per lb. extra

Carbon Tool Steel

Base Prices:	Mill Shipments	Shipments from Makers' Warehouse Stocks
Non-shrinkable tool steel	$0.35 per lb.	$0.36 per lb.
Special tool steel	0.23 per lb.	0.24 per lb.
Extra tool steel	0.18 per lb.	0.19 per lb.
Regular tool steel	0.15 per lb.	0.16 per lb.

Subject to established customs of trade, and with following extras:

All dimensions inclusive. Intermediate sizes take the next higher extra.

Base sizes—Round, square and octagon, ⅝-in. to 2 in. inclusive. Flat, ½ in. to 2 in. thick by 9/16 in. to 2 in. wide.

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EXTRA SIZES

Round, Square and Octagon

	Extra per lb. Cents		Extra per lb Cents
2⅛ to 3	1.0	9/16 to ½	0.5
3⅛ to 4	1.5	7/16 to ⅜	1.0
4⅛ to 5	2.0	5/16 to 11/32	2.0
5⅛ to 6	2.5	¼ to 9/32	3.0
6⅛ to 7	3.0	3/16	5.0
7⅛ to 8	3.5	5/32	10.0
		⅛	18.0

EXTRA SIZES

Flat

	Extra per lb. Cents		Extra per lb Cents
⅛ x 3/16	20.0	5/16 x ⅜ to ⅝	1.5
⅛ x ¼	15.0	5/16 x 11/16 to 8	1.0
⅛ x 5/16	8.0	⅜ x 7/16 to 8	1.0
⅛ x ⅜	4.0	7/16 x ½ to 8	1.0
⅛ x 7/16 to ½	3.0	½ x 9/16 to 8	1.0
⅛ x 9/16 to 7	2.0	9/16 x 2½ to 8	1.0
⅛ x 7½ to 8	3.0	9/16 to 2 x ⅝ to 2	0.0
3/16 x ¼	5.0	⅜ to 2 x 2½ to 7	1.0
3/16 x 5/16	4.0	⅝ to 1¾ x 7½ to 8	1.0
3/16 x ⅜	3.0	1⅞ to 2 x 7½ to 8	1.5
3/16 x 7/16 to ⅝	2.0	2½ to 3 x 2½ to 5	1.0
3/16 x 11/16 to 2	1.5	2½ to 3 x 5½ to 8	1.5
3/16 x 2½ to 7	1.0	3½ to 4 x 3½ to 6	1.5
3/16 x 7½ to 8	2.0	3½ to 4 x 6½ to 8	2.0
¼ x 5/16 to ⅜	2.0	4½ to 5 x 4½ to 7	2.0
¼ x 7/16 to ⅝	1.5	4½ to 5 x 7½ to 8	2.5
¼ x 11/16 to 2	1.5	5½ to 6 x 5½ to 8	2.5
¼ x 2½ to 7	1.0	6½ to 7 x 6½ to 7	3.0
¼ x 7½ to 8	2.0	6½ to 8 x 7½ to 8	3.5

Intermediate sizes take the next higher extra.

Annealed Steel.....1c. per lb. extra.

CUTTING TO SPECIFIED SINGLE AND MULTIPLE LENGTHS

	Per lb. Cents.
24 inches or over	0.5
18 to 24 inches	1.0
12 to 18 inches	1.5
6 to 12 inches	2.0

Less than 6 inches, special price.
Over 18 feet, special price.

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